

## SEQUENCE LISTING

<110> Macina, Roberto  
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 Sun, Yongming  
 Liu, Chenghua

<120> Compositions and Methods Relating to Lung Specific Genes and Proteins

<130> DEX-0273

<150> 60/252,054

<151> 2000-11-20

<160> 208

<170> PatentIn version 3.1

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 ccacatacaa tatctgttta aaaggattcc ctgtaaaatt agtttaaagg gttttggccc 180  
 tagaaatccc gtagttctac tccttagagc actcacgcca tgggtctttc ctttccccgg 240  
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acaaaaaaaa aacaaaaaaca acaaaacaac acaaaaaagg gtcggggggg ggaacaccct    600
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<400> 16

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&lt;400&gt; 20

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&lt;210&gt; 21

&lt;211&gt; 538

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 21

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cacagaggct actacagtat actacgattg acatttaggc ctgatgtctc cgtcagggtc    360
ctttagactt ttcagattt tccttttcct tgaggacttc aatagttatg ggtagtgtg      420
gctgactgta tcctttcatc tatctacca gaagtataat acttttattt cgtttgagta    480
taaattcttg caccctaaat aagttgtcct tagtcatttg tattagctaa caaaatac      538

```

&lt;210&gt; 22

&lt;211&gt; 197

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 22

```

aaggaccagg aaccgtaga acaggaccgc gatgcagggc agataaccaa tagggatccg      60

```

```
<210> 23
<211> 1059
<212> DNA
<213> Homo sapien
```

```
<220>
<221>  misc_feature
<222>  (426)..(426)
<223>  a, c, g or t
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<400>	23						
gtgaatacac	tcactatagg	gcctgttgcc	tctagatgct	gctcgagcgg	cgcagtgatga		60
tggatcgtgg	tcgcggcccg	agataccatg	tagtgctgtg	tcttctccca	aaaagatgtg		120
tatttagctt	aggaaagaaa	tgcaaagtgt	ggttgataaa	atggctcatg	aaagtgcagt		180
gagactgacc	ccatcctgta	ttcagggata	ggccatccct	ctctgccagt	gaagagagac		240
actatcttta	tatccgtaat	accacgtata	gactctgggc	ttccctgtag	ttcccctggg		300
gatagtgtcc	tccaccccct	attagtgtat	tagtgtatta	ctcgtggtcg	tgcggtgaat		360
gtcgtctgct	gagtgaggtg	gatgtcttgg	tctaggttac	tattttttgga	acantaactg		420
gctaanaccc	cttcggaaca	cacaaaaaca	gggcaggatg	tatatatttaa	ttttttaaaa		480
tttaccattt	tatttcacgt	tattgtacca	agctcatgaa	atgttttact	atttggtcag		540
aaaagtgaca	ttatggcaca	ttgcattcct	aagatttaat	acatggtttc	tcagggaggt		600
tgaaatacac	tatcctgaat	cttaaatatt	atagaactct	taaacaattt	tggcttagct		660
ggagaaggct	ggggtatatt	taagaatgta	tgtgttctgc	atatactcct	ttaagaaaaca		720
gattttccag	gctggctgtg	gtggctcaca	ccattaatc	ccaacaact	ttgtggggga		780
agcgcgcgag	ggcagcgagg	gattgcttga	ggcccaggag	ttcgagacag	cttaggcaac		840
agagcaagac	tgatctctat	taaaaataat	aaaaagaacc	cgctttgaga	taatagtgat		900
aaccctgac	tcgtcatatc	acctagacaa	ttgagattcg	acactggctg	ggatacgaga		960
ccagttgccg	acctgtttct	ggttcctttc	ggtggggacg	tttaaggggc	caggcttttc		1020

ccgtctctac ccgtggtaat cggctctggtc tgcgtgtca

1059

<210> 24  
<211> 1052  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (114)..(114)  
<223> a, c, g or t

<220>  
<221> misc\_feature  
<222> (151)..(151)  
<223> a, c, g or t

<220>  
<221> misc\_feature  
<222> (284)..(284)  
<223> a, c, g or t

<220>  
<221> misc\_feature  
<222> (447)..(447)  
<223> a, c, g or t

<400> 24  
gcgtggtcgc ggccgaggta cgtgccgcgg aatatgcccc gcttgcaatc gacatcatcg 60  
gtgccaaggg acctacgcat ccacgcgaga tgaacgggtgg tccgacgggt tgancaacgg 120  
gtcatcagga caaggttgta agtgagacca ngttttatag atagcttatg catattctcg 180  
cggaggccaa ttacgtatga ctccgggtga tgtcagaatg agttccatct ctccgagttg 240  
tgccaagggc ctgatgtgcg ttccgctcgt cagataagaa cttngttaga ccttgcgacg 300  
acgaaatcca cagcactagt cgagaactaa ttctaggtca taacataaca tacatgacaa 360  
aaccaaaaaa aaacaaaaaa aacaaaccaa cacaaaagcg cgttggcgcg tgtaaacacc 420  
agatgggctc tatacacgcg tgtgtanacc ccttgtgtgt gtcgacatat gtgtgtgtac 480  
tccccgcgct cccacaaat actcccccca cacaaaacat atccccggc acacaaacgg 540  
caaacaaagg aagagaagag aggggaaagc aagaaagaga agacagcaga aacaaagaga 600  
aagacaaaaa ggaaaggaga gaaggaaagc aggaaaaaag caagaaagaa caaaggaccg 660  
aagaacaaca cagaaacaaa aaaaaagcaa agacgggacg aggaaaaaag acaaaacgaa 720  
agaaaaggaa aagagaagca gagaggagaa ggaaaaaaga gagaagaagg aacgaaccaa 780

```

aaagaaaaca gagaaagaga cagaacgaaa gaaagcgaca agacacaagc aaagagagcg      840
acaagaaaag acagaaaaaa agacaggaga caagaagaaa cagaaaaaga aagaagcaga      900
acaacaaaga gggaaaaaaag aaaatagcaa aacgcaaaca gaaacaacaa acggaagaaa      960
gaccggacaa aacgagagag gagaagagaa aggcacaaaag aaagaaaaag agaaaagcag     1020
agaaagaaga caacccaaaag aaagaaagaa cg                                     1052

```

```

<210> 25
<211> 1124
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (186)..(186)
<223> a, c, g or t

```

```

<220>
<221> misc_feature
<222> (223)..(223)
<223> a, c, g or t

```

```

<220>
<221> misc_feature
<222> (356)..(356)
<223> a, c, g or t

```

```

<220>
<221> misc_feature
<222> (519)..(519)
<223> a, c, g or t

```

```

<400> 25
tagctgcttc ctttctctct cgcgcgcggt gtggtggcag caggcgcagc ccagcctcga      60
aatgcagaac gacgccggcg agttcgtgga cctgtacgtg ccgcggaaat gctccgctag      120
caatcgcatc atcggtgcca agggaccacg catccatcca gatgaacggt ggtccgacgg      180
cttgancaac gggtcatcag gacaaggttg taagtgagac cangttttat agatagctta      240
tgcatattct cgcggaggcc aattacgtat gactcggggg gatgtcagaa tgagttccat      300
ctctccgagt tgtgccaagg gcctgatgtg cgttccgctc gtcagataag aacttngtta      360
gaccttgcca cgacgaaatc cacacgacta gtcgagaact aattctaggt cataacataa      420
catacatgac aaaacccaaa aaaaacaaaa aaaacaaacc aacacaaaag cgcgttggcg      480
cgtgtaaaca ccagatgggc tctatacacg cgtgtgtana ccccttgtgt gtgtcgacat      540

```

<210>	26
<211>	659
<212>	DNA
<213>	Homo sapien

<400>	26						
tcgcgggccga	ggtttttttt	tttttttttt	ttttttgtgg	gtgttttaaaa	gtttaagtta		60
ggatatgggc	ccatatacca	aaaagcctca	agggacaaca	aagcctgtgc	ccctctctcc		120
tataaggggg	tgccctctc	aagagccct	atttgtgtgt	gttaaacact	ctcagagagg		180
aaaagctctc	gaactctctc	tgtggagccc	ttctccctct	ccctcacgag	tgtgtggng		240
aaaactgtgc	ccgaggattg	agaggataaa	ctccgtggct	taaaatctct	tgggtgtattc		300
cccaaatatt	aatgccccca	acacaaatat	tgtggaatat	caccaccact	tatttaaaat		360
atacacttac	acatatctcc	catatttaac	gcggtctcaa	tgagaatgtg	gtattcacgt		420
ggcacatatt	ctcaccatat	tacacatctc	gtggcacata	ctccacaaga	agcaagcgcc		480
tttgggcgag	ggggatctct	tatattctac	aagcctgtgg	gggatatatc	tcgatgtggc		540
gcccatataa	gcgctgtgtg	ttccgcggtg	gtgtgtgaaa	atgtgtggta	tatctcgcg		600
ctctaccaa	attctccacc	acacaaaatt	cgccggacaa	caaaaaaggg	ggggggggg		659

$\langle 210 \rangle$	27
$\langle 211 \rangle$	1337



&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 27

```

tttttttttt tttttttttt ttttaaagtg ggtaaaaaatc tttattttatc ttttttataa      60
attcacttgt gcaagaacaa cactttctcct caaaaatact tttccccccc aaaagagctt      120
aaaaaaataa gaaaaagagc taattagggt aggcagaaaag tgtctcttgg gagacacccc      180
tctctgtgtt ttctcagagg gagaagcctc tagtgccggg cgtgtgtgtg tctccaacca      240
ccgagaggtc ttgtgccacc agagggggcg agagagtctc tctccctgtg agacctctgt      300
gacacttgtg cgccagagac acctctctct gtgtggtgtt gtggcgccctc tcgcggagag      360
agacagcaac gccccaaagt ctctgcgtgg gcggtgtgag agactctccg tttctcctct      420
cgagtctcag tgtgcgcccc acacagggtg tgtgtatctc tccactatat atagacgcca      480
tctctctcta taacacactt ttctcactct ctataagaga gatatatatc tcctatagag      540
tatataataa agatctctat actaccata tatatttgtg gagggcgcgc actatgtgtg      600
tggttatatc tcccacagtt ggggtgttta ccacacaaag aaacacatat aatctctatc      660
tctctctgtg ccatatatat tatgtgtgtg tgtagacatc tttatataag aggagaacaa      720
cagcgcatgt agagagaatg tgacctctct ctatatgttc tcacacacac aacacgtgtg      780
gggtgtgaaa tctctctcta tatgtgtgtg tctctccac gaagtttgtg ctccccgggt      840
gggatggtgg ggggctctcc accccggaga caatgatgcc ccaatttctc ctctccctat      900
tctcgcgatg gatgcgccga gaataataat ttacaccata tatctctctg ttttttacac      960
acccatgttg tgggtgcccc taaaggggag cgcggcacc aaacatgatt agtgggagag     1020
agaatgtgaa aaaaaatata aacgaggccc gagggggcg cagaataaaa ctacgagggg     1080
ggtccacaat agaagctccg aagatgtacc ccgccgggt ggttgcggca ccactattcg     1140
tggttggtat atccccgggt ctccccaccc atatttcccc ccccataat caattagaca     1200
gaacacaaac aacacaaaac acaacaaagc agactacaag caaaaaagac gaaccaaacc     1260
agcgacatag aaacaccacc aaccacaaaa caacgcacca gcaaaaccac acaacaccac     1320
accatacag aaacaaa                                     1337

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&lt;210&gt; 28

&lt;211&gt; 164

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (111)..(111)

<223> a, c, g or t

<400> 28

acattgctaa ataacttctt aggaagagat gtgggggtggc aaacccttgc acgtctgaaa 60  
 atatccagat agattcggct agtgtgtgag cacactgttg aaatgtcatc ntctccctgt 120  
 gactcttaca cggacactct ctctctattg tctataaacg cttg 164

<210> 29

<211> 183

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (130)..(130)

<223> a, c, g or t

<400> 29

gcgtgggtcgc ggccgaggta cattgctaaa taacttctta ggaagagatg tgggggtggca 60  
 aacccttgca cgtctgaaaa tatccagata gattcggcta gtgtgtgagc acactgttga 120  
 aatgtcatcn tctccctgtg actcttacac ggacactctc tctctattgt ctataaacgc 180  
 ttg 183

<210> 30

<211> 676

<212> DNA

<213> Homo sapien

<400> 30

gtgaaaccca gtccctacac acacagacac acacacacac acacacacac acacacacgg 60  
 gcaacatggc gaaaccagc ctctacacat atacacacac acatacagac acacagacac 120  
 acacacacat ctagtctggt gtgtgggtgg cgcactatct gtgtgctccc agtctatctc 180  
 aagaggctga gtgtggaagg gatcatcttt gagcccagga tatttgatgt tgcattgtgaa 240  
 ccgagtattg tgcctagtgt catctccagg ccatgagaga cagagcgaga ctctgtctca 300  
 aaaacaaaaa aaaaaatttt tattgctccc ttaatatataa aaatttcata gggcttctag 360  
 tatttagtat ttagcaagta ctacagtctt tagtattcaa agagggctct ttgtggaaat 420  
 tactttataa tttctacgtc tgtgtgccct tgcctatggt ggtactgaga acgtgaatta 480  
 ccattgtgga aacttcacat tgtctactct ttattatagc atttcatttt aacaaaggtt 540  
 ggtattttat gtaggccttt ttcctttttg ttctttattg catattttca agagaagctt 600  
 ggcataatca tggacaatag ctgtcccctg tgtgaatttg tttccgccac aattccatct 660

676

```
<210> 31
<211> 2040
<212> DNA
<213> Homo sapien
```

[illegible]

acactatgct aggttcttgg caacaaggac actgtttggt cattaaggaa acatggaaaa 1560  
 gtgagggatg cccctctcc aagcaagcct gacccctcc gcatggcctc caacacacgg 1620  
 ctgcttccac tctgggctgg caggtggatc tgtttacaga tggtatctct ctcatgaatc 1680  
 agctgcagaa cctgatgaaa cagaacacat tataggtaat cacaatctca ccaaagaacc 1740  
 ttacagaaag caataccgct cttactatgt atcctccaag gtcaattttc acataattaa 1800  
 gaggctaatt aaaccagaca cacaaaatca cctattccct aacttttgtt caagccccat 1860  
 tctatttgtc tcagacactt cacctgatgg catctctgct ttcaaagagt agagagaaga 1920  
 aagtaagcag aggtcagatt aaagccatgg gagctgaata caggtagtgc tgacactagg 1980  
 gtcagcaggc aaagcaggaa aaaaatggca cttctttcag ctagcttaca aagcagtcac 2040

<210> 32  
 <211> 285  
 <212> DNA  
 <213> Homo sapien

<400> 32  
 atgccgaccg gcgctagtgt gatggatgcg gcgcccgggc aagtactaca gatgggcgcc 60  
 accacatcca gctaattttt gtatttatgt tggttggttg gttttttgtt ttcgttttag 120  
 tttgtggaga gacagggttt tgctgtttcc caggctattc taaagttcta ggctctgcct 180  
 gcatcagcct cccggggagc tgggattaca ggcgtgagcc actgtgcccc gcccttagaa 240  
 ataattttct ccacctccat tcctctgact cttgggttgt gcctc 285

<210> 33  
 <211> 618  
 <212> DNA  
 <213> Homo sapien

<400> 33  
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 caaaaactgc tagtggattt tttttttttt tttttttttt tttggaaacg gtttttgct 120  
 ctgtcccccg gctggttgcg gggttgtctc ggtcttgacc cccgcccccc ggggtgcagt 180  
 atttcctgc ctcatttccc attgctggga ctacgggcgt gcaccaccac gccagctat 240  
 ttttgggtatt ttatagcaga gacagggttt ccagtggtgg gccgggcgtg gttctcgaac 300  
 tttccgaccc tcaaattgac ctccgccctc cttgggccct cccaaagtgt cgtgggacta 360  
 ccaggcggtg agccccggcc gtggcctcca atatttccgt tgtccataaa ttccaacagt 420  
 tggccctccc tttgagccat cgaggtgtgg gggcaaaaaa aacatctttc ggttaatat 480

aaaatgggcg ttctatccca tcacagacag ggcaaaggag ggggcgacaa aaagctggga 540  
gtatccttgg gccataaggc tgttccttgg tgtgaaattg gttttcccg tccacaatccc 600  
cacacataac cagaccac 618

<210> 34  
<211> 365  
<212> DNA  
<213> Homo sapien

<400> 34  
aaaaaaagaa gaagttctgc aatttggatt tctccccata agttagacag gggaagaaga 60  
tgagaaatta gaaaattcat acggagggga acagggggag aagcagaggt tactggggaa 120  
actccttagg ggcaaaacaa ggcaggtctt atagaagggc tgggtcggct gtaacttctt 180  
caagggtaaa ccaccaacaa taaagtctgg gggttaattca tgggtccatag cctgttccct 240  
gttgtgaaca tggtttatcc gctccacaat tcccacacaa tatctcggga agacagtcca 300  
acgaaacgag taaaaaccaa gacaaccatc aaaacgaaca gaaaaaacag cagacaacaa 360  
agaga 365

<210> 35  
<211> 276  
<212> DNA  
<213> Homo sapien

<400> 35  
accaaattga taaacagcag gattcctgcc ctgtggaggg tatgtgttca tcaaaggagc 60  
ccacagcttc agagtgaat aaggaaaaga acgggaaact gggggagaaa ataccagggg 120  
gcataatgca gactaagggt gggaggggca agtggagtgg tcaggaaagg ccagtctgag 180  
gaaatgacat ttcattccgag tctcagagac agaggcttgg aaaacatata ttccaggtat 240  
aggagacaac atacgcaaag tccctggggc aggaaa 276

<210> 36  
<211> 506  
<212> DNA  
<213> Homo sapien

<400> 36  
accaaattga taaacagcag gattcctgcc ctgtggaggg tatgtgttca tcaaaggagc 60  
ccacagcttc agagtgaat aaggaaaaga acgggaaact gggggagaaa ataccagggg 120  
gcataatgca gactaagggt gggaggggca agtggagtgg tcaggaaagg ccagtctgag 180  
gaaatgacat ttcattccgag tctcagagac agaggcttgg aaaacatata ttccaggtat 240

aggagacaac atacgcaaag tccctggggc aggaaagagt ttggtacatt tgaggaccaa 300  
 atagaaaact ggtatggcct tggtttatca tggctgacat acaaagtcca ttgcagatct 360  
 gaagtgatgg cctagggaga gagcaggacc tggaatgcc aagacccag atcatcttcc 420  
 gtatataagg tgggcttcag agtttagctt cctctctaac ctcagagtca ccaggaggaa 480  
 tcaggaagca atttcaccac tctcct 506

<210> 37  
 <211> 249  
 <212> DNA  
 <213> Homo sapien

<400> 37  
 acaggaaggg gtcaaggtgg agagcaggct agaggaggc tggcgagatg ggccagggtca 60  
 ccatggcatg ctccacactg ctgggtgtag gaatgcatca cggggagggtg ctgacacttt 120  
 cagggtagac agggaaactg gactgccaca caccgactca gggaaaagcc aacagtccca 180  
 tatgtaaatt ttaaagttag ctttagaaaa taagttaaca gttatcagag caaaagtaag 240  
 gataaagga 249

<210> 38  
 <211> 406  
 <212> DNA  
 <213> Homo sapien

<400> 38  
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 acgctgtgcg tctgggtcat gccttgctg ctgttgctc cttgtacatc tcagcgcacg 120  
 aattactcaa tcacgacctg tgactgacgt caatgacggg gaagcggaat cttcatgcac 180  
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 ccaggggcgc agacacagca ttggctgacg tggtgagtga taggtatctt acggcagggg 300  
 agcatctgtg agtacagtca ccacaacgct atgagcgtaa ctcaatgtgt aactagact 360  
 agttatcctt gtgttgaaac ttgtatatcc agctcacata ttccat 406

<210> 39  
 <211> 253  
 <212> DNA  
 <213> Homo sapien

<400> 39  
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 ttctagcctc agatactggg gtggaagaag tagcagagct taatgctaga tcggctaaca 120

tatttagggc ctgggagtc tagttgacga tggagttttc aggaagatca ttgtgagccg 180  
 ctgtggtatt ttctggttga acactattta tgctaattcc atcttcttga ccacctcttg 240  
 aaatttctga ttg 253

<210> 40  
 <211> 1198  
 <212> DNA  
 <213> Homo sapien

<400> 40  
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 gtttttccat tgagtccagc gtcaaatctg agagtgcagc ctaagaggaa ggccagcatg 120  
 cccacatgg tgcagagtaa aaaggatgaac ttgtgccgcc cctttcccaa aagaactgct 180  
 tccagagcag acaacagctc ggactctcca acaactctta agttagttaa aggacagttt 240  
 cctcagaaaa gaaaaagagg tgcggaagtg ctgactgcac agtttgtaca gaaaacccaa 300  
 ttggatagga aaaaccaaga agctcctatt tctaaagatg ttccagtgcc aacaaatgct 360  
 aaaagggcaa ggaaacaaga gaaatctcca gtcaaaactg ttccaagggc taagccacct 420  
 gtgaagaaat ctccacaaaa acagagagta aatatagtaa aaggcaatga gaaccccaga 480  
 aacagaaagc agctacaacc tgtcaaagga gaactgcttc aaagcttcaa tcagaaatct 540  
 caagagggtg tcaagaagat gggattagca taaatagtgt tcaaccagaa aataccacag 600  
 cggtcacaa tgatcttcct gaaaactcca tcgtcaacta tgactcccag gccctaaata 660  
 tgtagccga tctagcatta agctctgcta cttcttcac accagtatct gaggctagaa 720  
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 aggaaatgct agaattctca gatgcaagcc aaagctcttc tgtttctgtg gaacattcat 1020  
 atgccctgct cttacagaa cattcaaaga aacatctaca ggagagagag atactaagcc 1080  
 ctctgtttcc caggaatggg acaaaaagcc ctgaagcagc aaccccagtg gggaaagtca 1140  
 tgccattcgg catcagccgg ctttgtgctt tcagcaaagc tctgacgac ccgtggtg 1198

<210> 41  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 41  
 ccgcccgggc aggtacctaa acaggccaaa tgttgccctt ggggttcctg tttcaacagc 60  
 atgggtgtgaa gcgcgcgcac aacctttctt gcctattaaa ataaaatgtc ataaactcat 120  
 cctgcaaggt ggcaaattcc tcaagaatat g 151

<210> 42  
 <211> 3096  
 <212> DNA  
 <213> Homo sapien

<400> 42  
 ttcctcacga aactcccagg cgctgtatag gaaacataaa tccgttgtca ggagcagta 60  
 gcacgctgtt gctctcggag cttggctgct cgctcgtgct cgcaaccact aaggtctacg 120  
 caaacctcca cggtttcctt ccgccttcgc gtcacctttc taagaaattc ccagagggca 180  
 gcgcagacgg ggggggctct gagactccgg gctccgcctc tttccgggaa ccgccacta 240  
 cccaggactc cgacagaggg tgaaaaaaga taacttccgg tctcgcgacg gtctctaata 300  
 tcgcgagaag agaaggcggc cgccatcggc cgaacggagg cggtaggcgag ggagggggtg 360  
 tggccgggga gcgcgaagtc cccgggagta agggagaggg gggggggctg cgctcccgg 420  
 gcatacgcac gcgtgcacgc tgccggctcg gctgggctga gaggggaggg ggccggcgcg 480  
 gccgaggcgg cgctcgttatt tccgtggctc ggacagtgcg tggcggcgcg ggtgaccacg 540  
 ggagaagtag gcataatggt tatgaaagct tctgtagatg atgacgattc aggatgggag 600  
 ctcagtatgc cagaaaaaat ggagaaaagc aatacaaaact gggtaggacat tacccaagat 660  
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 ctttttgaag ccatgtctgc tattgaaatg atggatccca agatggatgc tggcatgatt 780  
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tgtgaattta gtgaacagtc accatgtgtt ctttcaagat ctctgttaca aaccactttc	1680
ctggtggata acaaaaagggt ctttggaaact catctcatgc aagacatggg gaaagatgca	1740
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gaaagtctgc ccattgagcc gagagatcac aatgagccaa gcatatcaga acatgtgtgc	2340
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ccctcctcct cagtctcctg aactgtatgt ggcagctagt aagcactttc aacaggcaaa	2580
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tcctcctgaa tttgatttct ctgtcctata atattttcct gttgtgaaac ttgtttgaga	2760
gagactgggg aggtggccat aaagggggcag agtcttcttt cagacccaac tcttagaggg	2820
cacatcacca ggctccacat cacgggaagt gagatggatt tcttgggtta caactcatta	2880
taaggaatac ttttagtttg acagccttat atgacatgaa tgaaaactgc tgttttaaag	2940
tggtttatta tgttccatgg aagaaactgg tcttattgaa tgcattgatg aacgttatat	3000
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ttataaagggt taataaattt cttgacaaaa aaaaaa	3096

<210> 43  
 <211> 965  
 <212> DNA  
 <213> Homo sapien

<400> 43  
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 ttattaaaaat ggggaacact gtttaaactt tctggggcca tgaaaccca tcaggcagtc 120  
 taataaaaacc atcggggagg tctgaggatc acttgacccc aaaattttga ggtctgtata 180  
 agctgggggt aaccgggggt catagcgtgg ttcccgggtg tgaaatggtt acccgctca 240  
 caaatccac aacaacataa cggagacaag gagcctacgg tgacaaccac cctaggagca 300  
 gcccataata agaggagaac acaaacacac agacacatgg cgagcacaga aaaagaccag 360  
 aagacacaac gacggggaca cacgtgcgag gccacggcag cgcataaaaag agaacgaggg 420  
 cgcaacgagc acgacgggga gaacaaacgc gaggagaaca ggcagaaaaa taggagcagg 480  
 ccactactcc ggatgaacca cccggcatca accataaaca caccactcag cccacccccg 540  
 agaccgcgtc cagacaaagc caacaaccga cggctaaaac caccacacct tccacgcaca 600  
 aaaaaagcgg agcgcgaaaa taccaggtgg taaccaccaa cacagaaaaa catacgagcg 660  
 gaaaaacaca cgaccaggtg aaaaagaaca attgtgtaag cgcaaaaacg gaccaacaaa 720  
 aaacgacgca gacaggcacc accggcaaaa aaaggccccg cagcatagca tgagggtaca 780  
 tcacacaaga cagactcagg acccaccag cgacagaagg cacacaaaaa aacgcgacac 840  
 ccacaagagc tcacacggtg gcaccaacaa ccccaacagg acacagatcc agaacaacca 900  
 aggcgggtgc ccccaagaa aacatccact agaggggact ccacaagaca cgaagccacc 960  
 gaccg 965

<210> 44  
 <211> 325  
 <212> DNA  
 <213> Homo sapien

<400> 44  
 aaaaaacgca gcttggtggc acaacacctg tagtcccaac tgtcttaaga ggccttgccg 60  
 gcaggaggca ccactttgaa cccccgggt ggggtgtgggc ctgcccttga gctaattgatt 120  
 cgtgcccact tgcaactcaa gccctggtgt tgaccgatgc aggaccctgt tctctctgac 180  
 accaggtctt ctctcggtgg tgttttgggg ctgcttacc acaatttttt caccttggtt 240  
 ctcttctggt ccctaatact ggctcgaac caacctttcc agttcttatt taaacccaaa 300  
 aaacccttgt tgggtccaacc tggcc 325

<210> 45  
 <211> 333  
 <212> DNA  
 <213> Homo sapien

<400> 45  
 gatgactaat gggcgaaatgg gccttagatg catgccgagc ggcgccagtg tgatggatgc 60  
 gggccgccgg gcaggtactg ctgattttca gtctaaggac atatatctct tatatcatat 120  
 tgcctcttaa aaggtaaaga aaggcagggt ggacccatga catatcttct aggccacagc 180  
 tctgaacaca ttgcaagaga aatattcaag caaagtgaaa ggaaagcagc acattttcag 240  
 catcttaata gtgaagctat catactgaag gaaaccatat gagaaagga tatagaaagg 300  
 gcacccttc tcttcatttc cctctaacac tgg 333

<210> 46  
 <211> 273  
 <212> DNA  
 <213> Homo sapien

<400> 46  
 cggccgaggt gtaggggtgtg tgggtgtgtg ttaggggtgtg gtgtgtggtg tgtgatgtgt 60  
 gtgtggtgtg tgtggtatgt agtatatgtg gtatgtggtg tgtgtcgtgt gtgtggtgga 120  
 tacacaactc tataactaaaa gccaatgagt tgtttactta aagtgggtga actttatgct 180  
 atacaaatta tatctcaata cagatttctt taagtcttca ggaagccctc tggtaaagaa 240  
 gtcagcctaa cccagccctg cactcatctg acc 273

<210> 47  
 <211> 1526  
 <212> DNA  
 <213> Homo sapien

<400> 47  
 tttttttttt atgattaagg aattctgttc attaaaagag atcaacaatc attacatatt 60  
 ttatgcttgt atcaaaatat tacatgtacc tcataaatat atacaacaat tatgtattgt 120  
 tcttctatta catatagcag tttagaagtc agactgttac cactgcagat aacgtttgat 180  
 tttcagcatt tctataaaat ttccataaaa attaaaaatt ttcttaaaac aaattaaaga 240  
 tatcaataag taaaaaagta tatatttgca atgcatatat ttgacaaaag attcatatcc 300  
 agaatacata aagagccctt acaaatcaat gacaaaagac atctaaaaga caaacaaaac 360  
 aagatgtaca atggccagtc aacatatatt gaaaagattc tcaatttcat tagtcatcag 420  
 agaaatgcaa aaggaaacca taatgagagg tcaccacatg atcaccacat tggctaaaat 480

```

aaaaaataacc aaaatgccaa gtgttggtga gaatgtaggg aaactggaac tcgtgtacac      540
tgctggtggg aatgcaaaat agtgcacctg ctttggaata gagtctggga gttcctctaa      600
aagctcaatg tagaattacc atatgacca gcaattccac tcctctgtat agaccaaga      660
gaactgaaaa catatggtca aatacaactt gctcatgaat gtttataatg acgttattta      720
tgatagccaa aaagtggaaa caacccaaat gtccatcagt gcatacatgc aacaatgtgg      780
atgaaccttg aaaacattaa gttaaataa agaagctggc cgcacaaaga tcacacagta      840
aatgagtgca tctgtatgaa aagtcccaag aataggccaa tctatagagg cagaaggtaa      900
attagtgggt gtcaggggct aggaaggaag tggatgggaa atggctgcaa acagcatgag      960
gtgttttggg tggatgagga aacattctgc agtgacattg tggatgagga tacacaactc     1020
tataactaaa gccaatgagt tgtttactta aagtgggtga actttatgct atacaaatta     1080
tatctcaata cagatttctt taagtcttca ggaagccctc tggtaaagaa gtcagcctaa     1140
cccagccctg aactcatctg accaccaaag cttttcctca cattggcacc ctgagaaact     1200
ggtattctga agaacgcgct ttaggaaaaa ctgctttaga caacaggaat ttggttaagaa     1260
gaactttggt tctgtgaaca catatttgca tgtcagggtg catccttttg tatattattt     1320
atatttagtg tgtctatgtc ttgtcttctt ggtagcttta caagaatttc gaggagagaa     1380
agtatgattt tgtctctttg aattcctact tctcaccacc cataatgtgg tgcacacata     1440
aatatctgta aatatgcagt tagaactttg catcactaat gagttaatta aactattcaa     1500
caaagccaaa aatacatatc atggtc                                     1526

```

```

<210> 48
<211> 962
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (53)..(662)
<223> a, c, g or t

```

```

<400> 48
gccatggat actaacttct gcagttatcc attcagaaaa ttttcagaca tgnnnnnnnnn      60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     300

```

```

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnatacttc cgattcctcg catcaactga 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnaacagaga tgagcgacac acacagaaaa ggaactaata caaggaatac aaaacgcggg 720
ttaccacacc atgcgaaaga caccatcga agcagcaaac caatagtccg aaaccgtggc 780
aggaataacg gaataactag acacgcataat tatcccaaaa gagaaagcgt agcagcgtaa 840
acaaaaacac acagcaggaa ggaatcagac gaaagaagga cgaacgacca gagcggggg 900
aaaaaccccg aaaaacgacg agctaacgga aaacgccgaa acaacggaga agaataatag 960
ga 962

```

```

<210> 49
<211> 1757
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (609)..(609)
<223> a, c, g or t

```

```

<400> 49
gacccggccg cccgggaggg taaaaactag aaggtttctc ttccacttga tgttgtgccc 60
cttcactcat attgattgct gagagacgat atgaggggtc atcatgtgaa cactctgaac 120
gctaaatgta atactaacgt gtcacgcgag cagcggcagg gattagcgat actctcttca 180
ctgaccctga tgttcttgag tccttggggg ctactccatg gtatgtcccg ttaagtcttg 240
tgagccagta catctgttac ttcgtgtccc tggaagcgtc ttgaactatc attttccccg 300
tggaataacca gtggcaaggc cgtccaaagt cgagtgtcgg tattcacaag agcgtcgagt 360
gtattggagc atattggctc agtcacaaac attcaagtcg tccttccctt cccatggctg 420
accatgcata gagagctggc gtactagcgg cgtccatgct agaaaacctc gacgtagacc 480
tatacatcct ctatgtgcaa aacgatctat aaaggaccgt aagcttcgcc caaagggttc 540
tacatcggtg gagccacctc ccgggcataa cgggtggggt ccctcctcaa gcccccttaa 600
atctatacnc ctgcgcgtgt ttgggttcggg gccccgcccc gttgaggcaa cataccctaa 660

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<400> 50  
gcggggcgcc gcggggcagg tcttttattt aaatagccat gatccatgat agggatgcta 60

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agggatcatg catccgtcca ggcataactca tgtatccaag ctttatcatc attcaactac 180  
acagcgtgct aatttgaagc ttatcttaga ttccgataat cccactggca acctagcttg 240  
agtaatgagg cgcgcgcgag gagcgtaagg ccgttcgtgg cgttgtaatt gtntctcttg 300  
aagcgccac tcgcgtcgta tatttgcggc gcagtaatct ggtgcgtcca ctcatgtccc 360  
agaggtcttt cacgatctta gctgagtac tgggagagac tgtgtgtcaa ccacacgcat 420  
gcgcgcgagt tgtgttcttg ggctctcctt ttgcagtata cactagtctg atggcacagg 480  
gaccgatatg cgtgtgcgcg cattgagttc cgtgcatata tgggcttttc tatacaacat 540  
tatctctgcg cgttcaggtc actcgagaac tcccaataga gggcttagag ttggtggatt 600  
ctatccatcg atatttacct aagtacattg tgtagcggc cccactttct cctcggtcag 660  
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tggcagcttt agtccatggg tacagttagt acatggctcg tgtctcgtgg tgtattgccc 780  
acatttgctg tgaggtgcgc gcctttcgac cgcgagtggg cctatctact tgagctacgg 840  
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gagcagggga gcgcgcgag gatcgagacg ccacgagaag gagaaggcat cgaggagtag 1500  
gaggcgccga ggcagaacac acgccacccg agaccagaac agcacgctca gtggacgcga 1560  
cgagacacgc ggacagacga gacgaaacag aaggagtcct cgaacgcgga caggccagca 1620  
aggccagaga gcgcagcgcg caccaaaagaa gcgaagaaaa gggacacgta 1670

<210> 51  
<211> 148  
<212> DNA

<213> Homo sapien

<400> 51

ggcgagaaag tgatactcaa tataggcgac tggccttata atcatgtcga gccggctgca 60

gtgttgaatg gatagcgtgg tcgcgacgag gtacttcctg ggtgggcca gccaccccag 120

agagttatgt ttaccgagga ccctgaag 148

<210> 52

<211> 393

<212> DNA

<213> Homo sapien

<400> 52

gctttttttt tttttttttt ttttggccag tgctttctac tttattaaac atcagagagc 60

ccaaatagaa tgtccccggg ggagggaggc acttaagagg caccactaga ggggagagga 120

gaaagagggc acccctgggg aaagaagaaa tccaccaccc acaagaagac accaactctc 180

tccacaaaaa gagggctcca cacaatttga ttctcctaag gggaggacgc aggcgcaggg 240

ctccacggcc ttcaaaattt gtgggtgata taacgcgttc gaggatgtag aagggacccc 300

caagcctggg cggttaaact cagtgggctc aatagccgtg tttcccgtgg tggtgaaatt 360

gggttactcc ggctcaccaa ttcccaca aat 393

<210> 53

<211> 574

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (156)..(156)

<223> a, c, g or t

<220>

<221> misc\_feature

<222> (176)..(176)

<223> a, c, g or t

<220>

<221> misc\_feature

<222> (215)..(215)

<223> a, c, g or t

<220>

<221> misc\_feature

<222> (226)..(226)

<223> a, c, g or t

gagggctcca cacaatttga ttctcctaag gggaggacgc aggcgcaggg  
ctccacggcc ttcaaaattt gtgggtgata taacgcgttc gaggatgtag aagggacccc  
caagcctggg cggttaaact cagtgggctc aatagccgtg tttcccgtgg tggtgaaatt  
gggttactcc ggctcaccaa ttcccaca aat



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<220>
<221> misc_feature
<222> (237)..(238)
<223> a, c, g or t
```

```
<220>
<221> misc_feature
<222> (277)..(277)
<223> a, c, g or t
```

```
<220>
<221> misc_feature
<222> (306)..(306)
<223> a, c, g or t
```

```
<220>
<221> misc_feature
<222> (383)..(383)
<223> a, c, g or t
```

```
<400> 53
tacacggccg agcatgttca cgcacgtgga tccgagagcg ccgctgcact tcagtcactg      60
ttcttacgcg ccccgtagtg atggacacgt gccgagcgtg ctgcgagctc gagctctgga      120
```

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<210>      54
<211>      1332
<212>      DNA
<213>      Homo sapien

<220>
<221>      misc_feature
<222>      (389)..(389)
<223>      a, c, g or t

<220>
<221>      misc_feature
<222>      (646)..(646)
<223>      a, c, g or t

<220>
<221>      misc_feature
<222>      (989)..(989)
<223>      a, c, g or t
```

<400>	54						
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agagggagga	aagcagctac	ttcggtaaac	gagtttctac	aagaactatg	tgctcagtaa		120
cccgggtgct	ccagttgtac	gtgtagtgaa	acttcgactt	ttccacaaca	ttggcaggca		180
cgaccatttt	ccgtgtcgca	tgggtggact	atatggatca	gcagtggagc	tgacctgtcg		240
agcgtctagc	actgaccttg	actgggactc	acctttcaag	atccacggt	ttgccattat		300
gtactacttc	ttattgtggt	tactcctagg	tagtagggct	attgtccttg	ggcgcacact		360
aaatgggcat	agtatattgc	aatcctcant	tcatcacgtc	aatacaggtg	taattattag		420
ttctacaagt	tgtggagtca	cgttgtaaaa	gagtgcctact	ctaagagaag	cagaaatacg		480
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cgactacgcg tacaagggac tatgcggaaa tcttccgcat gggcgtcatt tggcgataca 600  
 tacatagatt acaacgcgga gagaggagga agggggggtg gtacanaacg gaccttttcc 660  
 ctgtggattt acaactctcc aagattggta taactattta tgtctttcga ttttatacgc 720  
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 gtttacctat tttacaattt ttttacatac tttcttataa acgcataccc caaatcccta 960  
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 ctatttcctt tccttttcgt tgacgtttct taaaggaggt aaggtttcct tttaaattca 1140  
 aggtcccaat tccaagtta ttgtgtggcc tttgaataac tggagggggg tttaacatgg 1200  
 ggggaaacgg ggatggggca gaaaaaacga ccaaaattta aaaaaaaaaa aggcttggcc 1260  
 gttattcatt gggccataa gcttgttttc cctgttgtt gaaatttggt atcccgcttc 1320  
 acaattcaca gt 1332

<210> 55  
 <211> 595  
 <212> DNA  
 <213> Homo sapien

<400> 55  
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 tctaatatca caatttaaga atgggagtag gagctgacaa ttggcacgta tatacaagtt 120  
 caagatagaa ccgaagtgat ggacacctct gacagataat ctttaatacg aaccataagt 180  
 gcaggtggga caaaagggtca gtatagcagt tttgtagggg agccccttgc acagcttccc 240  
 tggtagcacc atttgaacgc cttggcagca aagcgaactg tcaggactat ggcaacgcgg 300  
 tgtatcaact agcccaatta cagaagcagt atatcagcac gatccaccga aacacagggg 360  
 aataaacgcg gaaacagaac aaatatacaa acaaagtgc acaaaagcca aggaaccgga 420  
 aaaaacagag atgcaggagt taacaattag attacgaccc cgtagagaga tcaaaaacag 480  
 aacaccaaca aagtgagaaa ccaaaggatt aaaacgacgt cacaaaaaac ccggaccaac 540  
 tgaagacaac gaaaggaaag accgtcccca caaaggaaat aaaacgagat cacag 595

<210> 56  
 <211> 468

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 56

```

ggtgtatgtc tataggccct gttatctaata gctgctcagc cggcgcggtta tgtgatggat      60
gtggcgcggc cgaggtactc cttcaacaag ggatcgaccc tagctactca ggaggctgag      120
gtggaataat tgtttgaggc caggagttcc agatcagccc gggcaacatc atgcgacccc      180
atctctaaaa acatcttttt aaaaatgagc cagggtgtggt agcatgcacc cgtagtctca      240
gctactcagg agcctgaggc aggaggaagg tttcaacata ggagatcgag gctgctgtga      300
gctatgatcg tgctactgca ctccagcctg ggtgacacag caagttcctg tttccaaaca      360
acaacaagaa aacaaaacaa aaaaaagaaa aaaaaaaaaa aaaaaagggt ggggtattgg      420
gcaagttccg gtggtggatt tttttcccg ccatcccaa tttgaaac      468

```

&lt;210&gt; 57

&lt;211&gt; 499

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (243)..(243)

&lt;223&gt; a, c, g or t

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (258)..(258)

&lt;223&gt; a, c, g or t

&lt;400&gt; 57

```

cgcgccgggc tggtagacga gcgaatggct agatgtttac tcgctctcac tgctgcgaga      60
ccatcagcct gctcaatcga cttgggtagg ccgcgacgtg acaacaacct gaacggccag      120
acaagccgcg aagtcggaat cgatcttcca tggctacggg ccttggtggca cgagcacgct      180
ctagtgtctac acgcgagcaa tcttcagcac gctagccact ggctagccac cgagagcacc      240
tgntctccgg ggagcagnca tttgaactcg taggcgagca acgtgagcac tcatcgagag      300
aacgggtcag ccgttgggcg ctaggtcact ggctcgatag gctgctcctc ctggtgctga      360
atagtgtctt tccgcttcac aggttccagc tacaacgaga cgagcagcct ttgaccaggc      420
aggtcaggct gacctggttc ttggtcagct catcccggga tgggggcagg gtgtacctcg      480
gccgcgacca cgctaagcc      499

```

&lt;210&gt; 58

<211> 424  
 <212> DNA  
 <213> Homo sapien

<400> 58  
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 tctaacattg tgacctctga agctgatcca acctgccctg cggcgctcccg aagagtgtctc 120  
 gggattacta gcgcaacgag ccactatgcc tggacctcta ttgttcattgt acataccatg 180  
 ttcttacaga tagtgaaaat aggtcagata tcttagaaat aggtattccg tgttcgtaag 240  
 ttccgactgt ggatatgaat gcatactctt gtgtattgtc tgcttgctca gataaatgat 300  
 tcatcgcaaa ccacgacaac ttggccaat ggtgacgttg ttcactcttg actttaagac 360  
 aagatgcatg catagttcat atcactagag tccctttcaa gaacagaggc ctgctcggtta 420  
 catg 424

<210> 59  
 <211> 1264  
 <212> DNA  
 <213> Homo sapien

<400> 59  
 cctgaaaggt ttttcccggt cgtgcacacc tcctttacca ctageccttt cgggttttac 60  
 acccggtggcc gaccagggcc attgaaagcc cgttccatac gtaaaatagg agaggacctc 120  
 aattgtttgt tttgagcaga ctttgcccggt ccacagctgac catacgtgaa ctccgactta 180  
 cgcaacggcc cttccaagct caactactcc caccaggtt gggactacag gcacatgcc 240  
 ccacattcgc ctaattttgt attttctgta gagacagagt ttcacatgt tgcccaccct 300  
 ggtcttgga ctcctgggct caagggatct gctggccttg gcctctcaa gtgctgggg 360  
 tataggcatg agcctataac cctcaaatat ctttaagaaa gtaactgact gcagttgaaa 420  
 acaggtaatt gaaattgttg taagtgaac catggataaa gcgggactac tgtacatgct 480  
 cattaaaaaa aattaagggc caggcatggt ggccttacac ctgtagtcct agctactcag 540  
 gatgtctgag tcatggaatg actgcctgat tcccagtgt gagctcgat gcgtactatg 600  
 atctgtgatc acacaccact gcactccagc ctgcgtacca caagatcctg tctcaaaaa 660  
 tatataaagt aaaaagagtg attttattta tttatgaaac agggctctcac tctgtcgccc 720  
 aggtggagt gcaatggcat gatcttggt cactgcagtc tccgcctctt gggttcaagc 780  
 gattctcttg cctcagctc ctgagtagct gggactacag gcactcgcca ccatgcccag 840  
 cgtaatTTTT ttgtattttt agtagagatg gggctctcacc atgttgcgac caggctggtc 900  
 tctaacattg tgacctctga agctgatcca acctgccctg cggcgctcccg aagagtgtctc 960

```
<210> 60
<211> 1512
<212> DNA
<213> Homo sapien
```

<400>	60						
gtgggtcgcg	ccgagcgtca	cattttccaat	cttaatagac	gcatagccag	acttctgctt		60
ctgatgactg	agctacaggc	tacagtgagc	taggctccca	accggttctc	aacattctgt		120
attggttggt	taattattct	cccagcactt	ctatactatt	gtctgcccgt	agtgcctcgc		180
taagagagca	catgctaggc	tcagttatgc	tcgaagcgag	acatctagt	tcttcgacgc		240
agcggctata	tagctggcta	tcacaaaagt	cccaggctct	cgagcccaag	aaggcctctg		300
ggcgctacac	tccaatggat	cgactatgca	tgctcctcgc	ctgctgttag	aatagttggt		360
ctactccagc	tccacaactc	tcacacacaa	caactacgga	aggcaaggta	cactcgctgc		420
gtccagcaga	ccactgccgc	catttaacgc	gcaggccgag	cctcaccacg	acatgcctga		480
catcccccat	agtcccaact	tccatgctgc	tactgaogct	ctccacctta	ttgtcccttg		540
ccaacactct	aagccacttt	tcctcgttca	tcgccccccc	aaacaacaca	cacgcacatt		600
gttcgcctca	ctcgcacagc	gctcttgggc	ccgctaaaacg	tcccattgcg	ttccattaag		660
gccctcggtc	ttcccatgct	tgctgcaccc	ttctggcttc	tattctcgga	cttcagcta		720
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ctctgtctcc	cgccccatcc	ctccccctctc	caccgcgtcg	ctcgtctca	ccctcgccccg		840
gcgcgccacc	tcctcccact	ccgccaccct	tctaccccgc	cctcgcctac	ctctctacca		900
gcactcccat	ctctatcccc	cctctcttcc	atcccacacc	acccccctc	caccacagcc		960
gccattcaac	tgccccccac	tccacaccac	ctccgccccca	cacacaacta	ctcaccctac		1020
cgctccagcc	actccacccc	ctcacctcat	aacaccccta	gaccacacc	cacgcccccc		1080
ccaccacgca	tccactaac	caccatatcc	cccctcaaca	ccacctcccc	ccctctacac		1140
tcaaccctct	cttccccacc	ccctctccac	caatacaacc	cctctcaata	ctcatacacc		1200

```
<210> 61
<211> 775
<212> DNA
<213> Homo sapien
```

<400>	61						
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tcgttatgtt	tgcccaggtt	ggattgactt	ggcgcaatct	cggttcatta	gaacctccac		120
ctcccgggtt	acaccccatt	ctccgtgcct	aagccccccg	aaatagcgtg	ggaataacgg		180
gcccccgcaa	accacgaccc	ggttaaattt	tggaaatatc	tagttagaag	acacggggtt		240
tcccccgttg	tttgcccagag	ggatggctct	cgaatcctcc	ttgacctttg	tgaactccca		300
cccacctagg	ccttccccaa	agttgctggg	atacaacgag	gcgtgaacca	ttgcccccg		360
ccaaattcac	agttccttat	caaagaatat	acccagatt	aaaatctctg	ttgattgata		420
accgataatc	cccaatatta	gtgtaaaaat	tttacggaaa	agtgttatcc	taaatagacc		480
tcttaggcca	aaataccagg	tctgtatgag	aggccatctg	atgccctcaa	tctgtccagt		540
acatctccca	gaagacctgt	aaaaatatac	cccttttttg	gtggggcata	tgaacttttt		600
caacggggagt	agaatctcaa	tgtgtagaac	cagatgtccc	tgaatggaaa	atttggatcc		660
ctaaaaagtg	tgtcccttcc	taattggctg	tcctaattg	gataattaa	tctgtatta		720
tgaaaatctt	gggcaaaacc	tacagtttgc	atattccatt	accccatggt	agttc		775

```
<210> 62
<211> 918
<212> DNA
<213> Homo sapien
```

<400>	62						
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tcggtggtga	attagaggggt	ttaatgtgtt	gtgtcttaag	tgggtgggtgg	gtgtgagtgt		180
gacgccccat	tgtgtgtgtg	tgtggtgggt	aaatatatgt	gtataagagt	gggagtataa		240
taggcgcgtg	gtgcacatag	atctagtgtg	tgtgaagtct	ccgtgggtgaa	gtataggaaa		300
cagagtgtat	ctttgtgtgt	atctcacgag	aaacagatgt	gtgtgtgtgt	taccatagac		360
acacacagag	agagagtttc	tcctccccga	gatatagcgt	gtatacaata	gagtgagggg		420
gggagtataa	agggcgcgaa	gagggtataa	gcgcgagaag	agcccttgtg	tggctataag		480
aaagagttct	ctttctctac	aaaanagagc	ggctttattt	attagatgtg	tgaggcagagt		540
tattagaaaa	gtctttttgtg	aaaaagtgtc	ccctctgtta	gagagagaga	gagataattac		600
tacgtgtatg	gtgcgcgcac	gcgttgttgt	gaaagatggg	tgcgcgctat	cgcggaanaag		660
gaatgtgggc	acgattgttg	atggccgggtg	ggggccccac	gacacatatg	agttatacat		720
gatgaggaga	gagaatgtgt	ttaacaggtc	ctccccgggg	gggggggggca	gcgagaatta		780
ttatttgtag	aacaatatgt	gatagctgtt	gtgcgcccc	gccggtgggtg	ttaaaaaacg		840
cctctaggtg	gggcggaaat	aacacctccg	agtggggggc	tccacaatag	gcgcgttgtg		900
ttccccgcgg	tgggggtgg						918

<400>	63						
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tataaaacaa	aaaaaaaaag	acgctgggtgg	cggttacctc	gtgtggccat	ggctgtgttt		240
cccgtaggtgt	gtggaaaatg	gtttctctcc	cgctccacaa	aatccccact	cacaaacttt		300
acgaagcaaa	tgtccatgca	caaatactga	atctccaaat	cgttatacat	attttcgtga		360
tactgatacc	tccaattaag	gaacatgctt	acacacggtt	acagcattgc	gaagtacgtg		420



```
<210> 64
<211> 513
<212> DNA
<213> Homo sapien
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```
<210> 65
<211> 432
<212> DNA
<213> Homo sapien
```

<400>	65						
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gtgcgagacg							60
agcgagatat	cagact	caca	tcaaag	agca	gagtaa	atac	gagtattatc
cacgagaatc							120
acggggagaat	aagcgc	cagga	caagaa	acca	ctggtg	gaag	caaagaaggc
acagacaaga							180
aaggcaccag	ggaaaac	acg	cgaagac	aaa	ggcccc	ggcgc	taggccttgc
gcgatacaga							240
accgcaatca	ggacat	ccc	cacacac	acg	catgaac	aca	gccaatcaac
ccaacgaaaa							300
ttcgaaacgc	agtcca	agat	ccgagac	gga	tggcgg	acga	cccccg
caca							360
tagaaagcaa	tacaca	aaggc	agttgg	accc	cccgtg	gaag	cgtccacatc
atgagagcgt							420

actccactgt ac 432

<210> 66  
 <211> 457  
 <212> DNA  
 <213> Homo sapien

<400> 66  
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 atgaaaaaag atcagcctcg taagattaca ttctgtatga ttccattcat acaacattct 180  
 tgaaatgaca aaattacaga gatggaggac agaacagtgg tagccacagg ttggggtgag 240  
 ggtataagaa agggatgtgg ctgcggttgt aaaagggcag tgcaagggat ccatgtgaca 300  
 gaactgttct gtctcttgat atggtgggtca catgaatcta cacatgtgat aatattgcat 360  
 agaattaaat acacatacac gaaaaaagtt caagcagttg agcacaaata ttttaattgt 420  
 ctaaaatgac attttcttta agagttatct acagttc 457

<210> 67  
 <211> 2593  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (2340)..(2340)  
 <223> a, c, g or t

<400> 67  
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 cgccgcaggt gccaatggtg tgacagttaa cccgacagaa ctacttttat gcctcaggag 180  
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 attaacagaa tagcctgaga ttttaacagc ataactcatt ccctcttcca cttttgtact 300  
 ttatccaggt caacacatca gggttctcta acgattccag tattctgttt ctttactgta 360  
 agatacatgt aattcttgcc actgtgatta aacaagccct gtaatagtca gcagggttaa 420  
 aaagagatta cggaaaggat aaactcctac ctactttctt gggagatgtg ggaaagattt 480  
 caagtcacag catttttcat gactgtttat aaacaatggg cattttatct cacactttct 540  
 cttatttaca ttagtttttg cccttaggca actcatactc ctacagtgat tattggcttt 600

gctttcataa	catgtatttt	taagtatttta	ctctcttaat	ggccctcgat	gtctatttta	660
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tggccatgca	agggttggaa	attttactta	tttttccttg	gtagaagtta	tgttaaaaat	780
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actcaatagt	aaaaagaaca	aatgacctaa	atagaaaata	gacaaaagac	atgaagacat	900
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ttaagataaa	aaatagtagt	aataccaaat	gctggtgagg	atgtgaagaa	actggatcaa	1080
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agtgtggacc	ccatgtcccc	cacaccaaac	cagatcattt	gtggtaagaa	agcaccacn	2340
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ttgtgaacaa gaccgagaaa aattgccttt tcatcaagta ataaatcctg gccttaaaaa 2460  
 acgctccagt gattaccacac tgggggataa ccaggcgacc accatcatgg accccatttt 2520  
 ttgtccaag attggggatc tattaataac aatttttctt tttttttaat ggggcaacac 2580  
 gtaacaaaaa ttg 2593

<210> 68  
 <211> 1253  
 <212> DNA  
 <213> Homo sapien

<400> 68  
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 gtatctcatt taatcttaag agactctcta tgtcaaggat tcccggtgtgg gggctgaaaa 120  
 tgtacagtga gataaaatta tgaacggcca cttagtcac acgtccattc gtgcttctc 180  
 caatgtttcc atgggctgga cgcgtctctc aagcagagag gctaactctga ctcttatgct 240  
 aggaagactg atggctgctg ggactaagga cccagaacag ttccatgaga tgaggcgacg 300  
 acgattacga tgaccctcc gctagtgcc agatggtgac ccactttcgc gtctgctcaa 360  
 tgtgccagtg cttcgaagtg gatccagctt gctttctgaa ttagtgagtt cctggagcta 420  
 acatgatggc cataatcgga ttctttcacc gctcttgag cagcaaagct catggactag 480  
 gaacactggc taagaagcga aagcacacaa atgagaacgc ggaaagatcg aaaaaggcag 540  
 gtgcagacgt atttgaagga aaagccctga aaagtaatgc cgtgtacac cgacagcttg 600  
 gactgttctt gtgtgtgcaa agcacacgta agaaatgtaa ggcagagaag atctcgttac 660  
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 cggaaacctt ttaatgcatg gttcccatag tcaaacttca cccgccttga tatgggcaac 780  
 ttttgagacc cagtacaaga aaacagttgc ccgtcaagaa gaagcatcgg tatcgagggt 840  
 aagcccttag ggggttgggc ccctagttga atgtcaattg ggttgaattt cacgccaaga 900  
 atggttctc gagataggt atactttgtt ccaattctgt ggacttgag aaccatgca 960  
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 ttgaagagaa ggactccag cgggacaatt tcggcaacaa attggggggg cctttttacc 1080  
 caagggtgca aagttgaaa ggaaaagccg tcccttcccc taacatccca tgagcaattt 1140  
 tgcgctggag tataccaat taatacaacc caaaggacaa ttatccctcc aagggtctt 1200  
 ttaccctccc tttcccctt acctggagaa ttaccttct ttgtgatgtg gcc 1253

<210> 69  
 <211> 454  
 <212> DNA  
 <213> Homo sapien

<400> 69  
 tggtcgcggc cgaggtactt atacccccta aatatataaa acattttttaa aagaaaacaa 60  
 ggaagaaact attcatacat gcaacaactt ggatggattt caagggaatt atgctgaatg 120  
 aaaaaagatc agcctcgtaa gattacattc tgtatgattc cattcataca acattcttga 180  
 aatgacaaaa ttacagagat ggaggacaga acagtggtag ccgcagggtg gggtgagggt 240  
 ataagaaagg gatgtggctg cggttgtaaa agggcagtg c aagggatcca tgtgacagaa 300  
 ctgttctgtc tcttgtgatg gtggtcacat gaatctacac atgtgataat attgcataga 360  
 attaaatata catacacgaa aaaagttcaa gcagttgagc acaaataatt taattgtcta 420  
 aaatgacatt ttctttaaga gttatctaca gtcc 454

<210> 70  
 <211> 1722  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1696)..(1696)  
 <223>

<220>  
 <221> misc\_feature  
 <222> (1696)..(1696)  
 <223> a, c, g or t

<400> 70  
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 ccgtgaggag atttcataag gacctgctag tgactggcgc gtacgagatc tccgatcagt 180  
 ctggggggcgc tggcggcctg cgcagccacc tcaagatcac agattctgct ggccatattc 240  
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 tgtttgaagt gtgttttgag agcaaggga caggcggat acctgaccaa ctctgatcc 360  
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<210> 71
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<212> DNA
<213> Homo sapien

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<223> a, c, g or t

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tgctgtaat ccagctact caggaggctg aggcaggaga attacttgaa ctcggagggc 180

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 aattttccac caccacaact ctccgcaaga aacaaaaaa tgggcgaaca cggcgcgaa 540  
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 aaaaaggagg agcaggcaaa ctg 623

<210> 72  
 <211> 1452  
 <212> DNA  
 <213> Homo sapien

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 accaacctcc ct 1452

<210> 73  
 <211> 438  
 <212> DNA  
 <213> Homo sapien  
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 <221> misc\_feature  
 <222> (226)..(226)  
 <223> a, c, g or t

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 atcaccccat ggaatattgg gaaaaaata tgcaaacacc gttgaagaaa tctccgtgcc 180  
 ccttctcccc cccagggggg acgaccccg t aagtaatgaa cttgtngcgt acctctgtgg 240  
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<210> 74  
 <211> 239  
 <212> DNA  
 <213> Homo sapien

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 gttgtgcgcc ttgttttgcg gtccgcttcg gggcgcgacg cgcacgcgac cagtgggctt 180  
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 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (218)..(218)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (311)..(311)  
 <223> a, c, g or t

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 tctgcccgcct gagagtctca cgggacgtgt gcttgcaggt ggttcgacac gacgaacgac 180  
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1282

<210> 76

<211> 1074

<212> DNA

<213> Homo sapien

<400> 76

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<210> 77

<211> 1343

<212> DNA

<213> Homo sapien

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<223> a, c, g or t

<220>

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 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (855)..(855)  
 <223> a, c, g or t

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 cagcggccac agcacagccc gcg 1343

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<400> 78

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 <212> DNA  
 <213> Homo sapien

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 <212> DNA  
 <213> Homo sapien

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 <223> a, c, g or t

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 <223> a, c, g or t

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<213>	Homo sapien

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<211> 516  
<212> DNA  
<213> Homo sapien

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<210> 85  
<211> 669  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (421)..(421)  
<223> a, c, g or t

<220>  
<221> misc\_feature  
<222> (538)..(538)  
<223> a, c, g or t

<400> 85  
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aaaacccccg agggaaacag aaggtttcaa tttttcagaa atcctaaggg gggccccggg 180  
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aaacaagaa 669

```

```

<210> 86
<211> 371
<212> DNA
<213> Homo sapien

```

```

<400> 86
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tatctctcgt gtggctcaca atagccgtgt ttccgcgggt tgtgaaagtg tgtttacccg 300
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<210> 87
<211> 998
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (332)..(415)
<223> a, c, g or t

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<400> 87
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nnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnaggta 420
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```

```

<210> 88
<211> 457
<212> DNA
<213> Homo sapien

```

```

<400> 88
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```

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<210> 89
<211> 3100
<212> DNA
<213> Homo sapien

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```

<220>
<221> misc_feature
<222> (49)..(49)
<223> a, c, g or t

```

<220>  
 <221> misc\_feature  
 <222> (91)..(91)  
 <223> a, c, g or t

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<210> 90
<211> 1304
<212> DNA
<213> Homo sapien

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<210> 91  
<211> 993  
<212> DNA  
<213> Homo sapien

<400> 91  
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<211> 1439  
<212> DNA  
<213> Homo sapien

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889

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 <213> Homo sapien

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577

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<210> 107

<211> 718

<212> DNA

<213> Homo sapien

<220>

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 <223> a, c, g or t

<400> 107  
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 ctcatccgtc ccaaccacaa gggcaatcaa agcccttctc cctgcgactc aataacaacc 180  
 gtcaaataaa aaatatcatc aatgacaatc aaaagaaaaa aagaaaaaaa aaaaaaaaaa 240  
 aagaatgagg gaaaaaaaaac aaggaaaaaa aacaagaaga acacacggag gagagagaga 300  
 agagaaaaaa cggagacaaa gagacacaaa cgacacaaca gagacacgag agcacgaaac 360  
 accggacgca gcaacaaaga acacgcagaa acaagacaaa cgaacacaac agcgcgagca 420  
 caggaacaag aagaccagaa gagcaaggaa gacgagctag cggccaggca gacgaagaga 480  
 caggaggcca gagaagcaca caacacaggc gaaggagaag aagcaggacg gagaacgggg 540  
 aaaccgagga gagaaggaac gagagcagaa cagaaagaaa aaccaaagac agagacagca 600  
 gagccaaagc nagaagagga acgaagaaga gcgaacgacg acgaacacgc gcgcagaccg 660  
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<210> 108  
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 <212> DNA  
 <213> Homo sapien

<220>  
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 <223> a, c, g or t

<400> 108  
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 gccgagtatc actgtggaga gagccacatg tttgatgggtg aggatggctc gagactgact 180  
 ctgactcatg gggcagctcc tgtgcgagcagg ggagtctcag tctctgaggc ctccatgag 240  
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 ggagatgcat tgccaaaaaa atatgcttat tgggtaccagc agaagtcagg ccaggccctc 360  
 gtgctgggtca tctatgagga cagcaaacga ccctccggga tccctgagag attctctggc 420  
 tccagctcag ggacaatggc caccttgact atcagtgggg ccaggtgga ggatgaagct 480

gactactact gttactcaac agacagcagt gatgacatga accaggtaca ctgctctaag 540  
 ttctgcotta aggagagtgt tcctccacca ctgctgttca gggagagcca gagggcaggc 600  
 cacaaactag cgaacatggc caccctgacc atcagcaggg ctcagactga ggacgaggct 660  
 gactattact gtcacaggat aaagctggtg aaagagggcc tggatgaaag gacacacaaa 720  
 gcgtatcttt catctagtgg taaaggatgt gagttccata tggatgaagcc tgggtcacc 780  
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 gcaggttatg actatgtaca ctggtaccag cagcttccag gaacagcccc caaactcatg 960  
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 aagtcccaca aaagctacag ctgccaggtc acgcatgaag ggagcaccgt ggagaagaca 1440  
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<210> 109

<211> 2168

<212> DNA  
 <213> Homo sapien  
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 <221> misc\_feature  
 <222> (1144)..(1144)  
 <223> a, c, g or t

<400> 109  
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 ctagctagct ataggaacca gataagaaat gaagaaaaaa gaaggcatat caatgatata 180  
 agatacacgt atctaagtga ggagttagga ctaccctaca tactatacta agacacagtg 240  
 cgggtacaaga agcatgatac gatgactgtg cgtgtcacat atactaatgt actaagttag 300  
 gtacggcgac cgataccaaa atatgcccc aatgtgctgg tgctccacag catcttacca 360  
 tatcccatgc atgcaaaatg catggtaagc acatgggtgtc caaatgtgtc agcctactat 420  
 actaaaacaa ccacatgcag caccataaac agatgcaaca tgcaaagcac caaacaggga 480  
 cacacagcac aactcgctat cttaacgata gaacagatcc aatccccaga ctataacatg 540  
 ttattaaccc atggcctact acaggccgct caatggaacc tgggtttatc cttaaagcaa 600  
 caacgttatg cccaactcgc ctcaaggaca cgccacgcca atggcatccc ggcaaccgga 660  
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 accaccgagg ctggacaccc cccaggttgc cgtgcacata tcaactgccac taactaccga 1260  
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 gacctcttag gtcagaccgt acagtgcgtg cagcagccca ccggcgtggg cggcctacca 1440  
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<212>	DNA
<213>	Homo sapien

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tgctcggctt agagtccacg tggagtgtct tggcaggggt ttgcacacgg acggaccgcg	180
agaaaaggta aacctctcgg agcctccaca ctccgggggt gataagccgt ggatcctctc	240
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attgctgtat gtgagggttc cttacagcga aggggcaaga gcgttttgtg cgtagactcg	360
agtaggtcga ataagcttgt ttccggttg tgtttgaaga atatgttaat accgcttcaa	420
cagatcccc ccctaagccaa cgaaaagcct attaccgcgg gaaatggcca aactctagga	480
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ccaccgcgcc gttgtgggcc cccaccgggt cgtccgcccg ttatatccac gcgtaaccag	600
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cgcttaccta tggattagcg gtgcgaaggtg acaataagga gaaccaatac cggttcgaag	720
aaaaaacgcgc gcatttaggt tgccgttgat atgaagagac ctctcatacc agagcgcgag	780
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ttatgacaag cagacaatta taaggttaag atatattcgg cacgcagggt tcacatacca 900  
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<210> 111  
<211> 815  
<212> DNA  
<213> Homo sapien

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ggtggcaaatt tcctcaagaa tatgannnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
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gaggcatggt acagagaata gagatcaaga gagatcaaaa gacaggccac aaagacaaga 540  
cggaggagga gaacgaaaaa gaagtcagaa gaaaacaaaa aacgagagaa taacagaaat 600  
caacacagca acaagagagc agacaaggca agagcaaaaag aaacacaagc aacagagaga 660  
agccaaacga aaaaaaagaa aaggagagaca gcagacgaaa gagaccaagc gacaccgaca 720  
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<210> 112  
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<222> (439)..(439)  
<223> a, c, g or t

<400> 112

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aacattccgg gaagcaacnt cactggaaga tgaataatgg cagatgtgtg aattggagca 480  
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cacgaacgaa caaagagctg aaatgagata ctgaagggtca tatatgcacc ggataacgga 660  
cagtagacaa tagactccct ttggagagat ctggaccaga gatggatata aatgatatgg 720  
caatatgctg gatcca 736

<210> 113  
<211> 588  
<212> DNA  
<213> Homo sapien

<400> 113  
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acgcaaacgc atactcgggg cccaagcgga ggtgaagggtc agaagaataa aaagagagaa 480  
gcgagcgagc agcggctgag cgagagaaaa gcagacacaa acaacagcca accaaggaag 540  
ggagcagaag aaaacgaaag aggagaaaca aaggcaaaga aagacaaa 588

<210> 114  
<211> 1098  
<212> DNA  
<213> Homo sapien



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 <221> misc\_feature  
 <222> (327)..(327)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
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 <223> a, c, g or t

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 <222> (471)..(471)  
 <223> a, c, g or t

<400> 114  
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 caacagactg acatggccac aacactaccg gaacagccct agcgcatgcg ataaaggtat 720  
 cataggggat cgtcaacagc atgcatgcgt gaaccatgga tataccatat aactggaata 780  
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 caacagacac acacaacc 1098

<210> 115

<211> 816  
 <212> DNA  
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<400> 115  
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<210> 116  
 <211> 33  
 <212> PRT  
 <213> Homo sapien

<400> 116  
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Glu

<210> 117  
 <211> 18  
 <212> PRT  
 <213> Homo sapien

<400> 117

Met Ile Leu Asp Ile Cys Leu Tyr Ala Ile Met Ala Tyr Val Met Ile  
 1 5 10 15

Met Asn

<210> 118  
 <211> 52  
 <212> PRT  
 <213> Homo sapien

<400> 118

Met Thr His Val Cys Ala Thr Ala Leu Gln Pro Gly Arg Gln Ser Glu  
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Thr Pro Ser Gln Lys Thr Lys Thr Lys Gln Asn Glu Thr Ile Asn Lys  
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Val Thr Asp Asn Leu Gln Asn Gly Arg Lys Tyr Leu Pro Thr Met His  
 35 40 45

Pro Thr Lys Ile  
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<210> 119  
 <211> 192  
 <212> PRT  
 <213> Homo sapien

<400> 119

Lys Ala Asn Asn Ala Gln Ser Asn Arg Gln Pro Thr Glu Trp Ala Lys  
 1 5 10 15

Ile Phe Ala Asn Tyr Ala Ser Asn Lys Asp Leu Ile Ser Arg Ile Tyr  
 20 25 30

Lys Lys Leu Gln Lys Ile Tyr Lys Arg Lys Thr Ser Asn Pro Leu Lys  
 35 40 45

Arg Lys Trp Ala Lys Asn Met Asn His Ile Ser Lys Glu Asp Ile Tyr  
 50 55 60

Ala Phe Lys Lys His Ile Lys Asn His Ser Ser Ser Leu Ile Thr Thr  
 65 70 75 80

Arg Arg Arg Arg Lys Lys Glu Pro Ser Gly Arg Thr Gly Glu Thr Asn  
85 90 95

Leu Arg His

<210> 121  
 <211> 21  
 <212> PRT  
 <213> Homo sapien

<400> 121

Met Gly Gln Asn Trp Met Asp Leu Leu Lys Gly Asn Ile Glu Gln Asp  
 1 5 10 15

Asp Glu Leu Ser Lys  
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<210> 122  
 <211> 79  
 <212> PRT  
 <213> Homo sapien

<400> 122

Met Phe Leu Val Ser Ser Phe Asp Ile Val Leu Phe Ser Cys Leu Phe  
 1 5 10 15

Leu Arg Pro Leu Val Leu Cys Cys Pro Phe Ser Pro Ser Ser Tyr Val  
 20 25 30

Gly Leu Cys Gly Val Tyr Phe Pro Val Leu Phe Leu Thr Ile Arg Phe  
 35 40 45

Val Phe Phe Phe Phe Phe Val Ser Pro Phe Ser Cys Phe Leu Phe Leu  
 50 55 60

Arg Leu Cys Ser Ala Val Val Pro Leu Val Gly Ile Val Cys Leu  
 65 70 75

<210> 123  
 <211> 27  
 <212> PRT  
 <213> Homo sapien

<400> 123

Met Val Phe Lys Pro Val His Asn Thr Val Leu Gln Phe Ser Glu Leu  
 1 5 10 15

Pro Pro Thr Gly Ile Ile Ile Pro Gln Tyr Pro  
 20 25

<210> 124  
 <211> 54  
 <212> PRT  
 <213> Homo sapien

<400> 124

Met Phe Arg Pro Gly Phe Gly Tyr Tyr Ile Asn Pro Pro Gly Pro Pro  
 1 5 10 15

Pro Asn Pro Ala Ser Val Asn Arg Ala Asn Thr Leu Glu Asp Arg Asp  
 20 25 30

Lys Asn Phe Glu His Leu Phe Gly Gln Leu Leu Lys Glu Phe Leu Phe  
 35 40 45

Pro His Thr Ser Pro Gln  
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<210> 125  
 <211> 91  
 <212> PRT  
 <213> Homo sapien

<400> 125

Met Cys Phe Ser Val Thr Phe Ser Ser Ser Val Gly Leu Ser Phe Cys  
 1 5 10 15

Val Ile Ser Ser Phe Leu Leu Ser Cys Cys Ser Leu Ser Ser Trp Leu  
 20 25 30

Leu Ser Val Phe Ser Thr Arg Cys Cys Leu Glu Ser Val Gly Ser Gly  
 35 40 45

Leu Leu Leu Ala Phe Trp Thr Gly Pro Asp Thr Gln Leu His Pro Gly  
 50 55 60

Thr Ser Leu Trp Pro Arg Thr Thr Pro Arg Leu Leu Gln Glu Ala Leu  
 65 70 75 80

Pro Asn Leu Gln Val Asn Arg Phe Arg Asn Ser  
 85 90

<210> 126  
 <211> 53  
 <212> PRT

<213> Homo sapien

<400> 126

Met Leu Phe Lys Pro Leu Gly Lys Cys Ile Ser His Leu Thr Leu His  
1 5 10 15

Glu Leu Leu Gln Gly Leu Gln Gly Leu Thr Leu Leu Pro Pro Gly Ser  
20 25 30

Ser Glu Arg Pro Val Thr Val Val Leu Gln Asn Gln Val Thr Cys Leu  
35 40 45

Gly Gly Phe Phe Pro  
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<210> 127

<211> 37

<212> PRT

<213> Homo sapien

<400> 127

Met Leu Leu Glu Arg Arg Ser Val Met Asp Trp Ser Arg Pro Arg Tyr  
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Phe Leu Tyr Pro Asp Ile Asn Leu Met Cys Cys Asn Leu Phe Asp Met  
20 25 30

Ile Ser Tyr Lys Ile  
35

<210> 128

<211> 50

<212> PRT

<213> Homo sapien

<400> 128

Met Tyr His Arg Glu Ile Val Pro Val Tyr Glu Val Leu Ser Val Ile  
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Thr Gly Leu Gln Ile Gln Val Phe Ser Gly Lys Glu Ala Asp Ser Val  
20 25 30

Ile Lys Arg Ser Ile Gly Trp Gly Pro Phe Phe Lys Pro Arg Cys Tyr  
35 40 45

Asn Pro

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<210> 129  
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 <213> Homo sapien

<400> 129

Met Ala Arg Pro Gly Cys Arg Ile Pro Ile Gly Tyr Leu Pro Cys Ile  
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Ala Val Leu Phe Tyr Gly Phe Leu Val Leu  
 20 25

<210> 130  
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 <212> PRT  
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<400> 130

Met Thr Ser Gln Gly Leu Ser Leu Leu Ser Gln Ser Gly Phe Phe Leu  
 1 5 10 15

Leu Phe Leu Ile Glu Ile Ser Leu Ala Leu Leu Pro Lys Leu Ser Arg  
 20 25 30

Thr Pro Gly Pro Gln Ala Ile Pro Arg Cys Pro Arg Ala Leu Pro Pro  
 35 40 45

Gln Ser Cys Trp Gly Leu Met Gly Val Ser His His Ser Gln Pro Gly  
 50 55 60

Lys Ser Val Ser  
 65

<210> 131  
 <211> 86  
 <212> PRT  
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<400> 131

Met Arg Met Trp Tyr Ser Arg Gly Thr Tyr Ser His His Ile Thr His  
 1 5 10 15

Leu Val Ala His Thr Pro Gln Glu Ala Ser Ala Phe Gly Arg Gly Gly  
 20 25 30



Ser Leu Ile Phe Tyr Lys Pro Val Gly Asp Ile Ser Arg Cys Gly Ala  
35 40 45

His Ile Ser Ala Val Cys Ser Ala Val Val Cys Glu Asn Val Trp Tyr  
50 55 60

Ile Ser Arg Leu Ser Pro Asn Ser Pro Pro His Lys Ile Arg Arg Thr  
65 70 75 80

Thr Lys Lys Gly Gly Gly  
85

<210> 132

<211> 111

<212> PRT

<213> Homo sapien

<400> 132

Met Ile Ser Gly Arg Glu Asn Val Lys Lys Asn Ile Asn Glu Ala Arg  
1 5 10 15

Gly Gly Arg Arg Ile Lys Leu Arg Gly Gly Ser Thr Ile Glu Ala Pro  
20 25 30

Lys Met Tyr Pro Ala Gly Val Val Ala Ala Pro Leu Phe Val Val Val  
35 40 45

Ile Ser Pro Gly Leu Pro Thr His Ile Ser Pro Pro His Asn Gln Leu  
50 55 60

Asp Arg Thr Gln Thr Thr Gln Asn Thr Thr Lys Gln Thr Thr Ser Lys  
65 70 75 80

Lys Asp Glu Pro Asn Gln Arg His Arg Asn Thr Thr Asn His Lys Thr  
85 90 95

Thr His Gln Gln Asn His Thr Thr Pro His Pro Tyr Arg Asn Lys  
100 105 110

<210> 133

<211> 36

<212> PRT

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Met Thr Phe Gln Gln Cys Ala His Thr Leu Ala Glu Ser Ile Trp Ile  
1 5 10 15

Phe Ser Asp Val Gln Gly Phe Ala Thr Pro His Leu Phe Leu Arg Ser  
20 25 30

Tyr Leu Ala Met  
35

<210> 134  
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<212> PRT  
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<400> 134

Met Leu His Val Asn Arg Val Leu Cys Leu Val Ala Ser Pro Gly His  
1 5 10 15

Glu Arg Gln Ser Glu Thr Leu Ser Gln Lys Gln Lys Lys Lys Phe Leu  
20 25 30

Leu Leu Pro  
35

<210> 135  
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<212> PRT  
<213> Homo sapien

<400> 135

His Pro His Thr Arg Leu Asp Val Cys Val Cys Leu Cys Val Cys Met  
1 5 10 15

Cys Val Cys Met Cys Val Glu Thr Gly Phe Arg His Val Ala Arg Val  
20 25 30

Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys Arg Asp Trp  
35 40 45

Val Ser Pro Cys Ala Gln Val Cys Ala Cys Val Cys Val Cys Val Cys  
50 55 60

Val Gly Thr Gly Phe His His Val Ala Gln Val Cys Val Cys Val Cys  
65 70 75 80

Arg Asp Trp Val Ser Pro Cys Cys Pro Gly Val Cys Val Cys

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<210> 136  
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<213> Homo sapien

<400> 136

Met Leu Val Gly Trp Phe Phe Val Phe Val Leu Val Cys Gly Glu Thr  
1 5 10 15

Gly Phe Cys Cys Phe Pro Gly Tyr Ser Lys Val Leu Gly Ser Ala Cys  
20 25 30

Ile Ser Leu Pro Gly Ser Trp Asp Tyr Arg Arg Glu Pro Leu Cys Pro  
35 40 45

Ala Leu Arg Asn Asn Phe Leu His Leu His Ser Ser Asp Ser Trp Phe  
50 55 60

Val Pro  
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<210> 137  
<211> 137  
<212> PRT  
<213> Homo sapien

<400> 137

Met Asp Val Ala Asp Glu Val Ile Leu Val Ile Glu Leu Gln Lys Leu  
1 5 10 15

Leu Val Asp Phe Phe Phe Phe Phe Phe Phe Trp Lys Arg Phe Leu  
20 25 30

Pro Leu Ser Pro Gly Trp Leu Arg Gly Cys Leu Gly Leu Asp Pro Arg  
35 40 45

Pro Pro Gly Ala Val Ile Ser Leu Pro His Phe Pro Leu Leu Gly Leu  
50 55 60

Arg Ala Cys Thr Thr Thr Pro Ser Tyr Phe Trp Tyr Phe Ile Ala Glu  
65 70 75 80

Thr Gly Phe Pro Ser Val Gly Arg Ala Trp Phe Ser Asn Phe Pro Thr  
85 90 95

Leu Lys Leu Thr Ser Ala Leu Leu Gly Pro Ser Gln Ser Cys Val Gly  
 100 105 110

Leu Pro Gly Val Glu Pro Arg Pro Trp Pro Pro Ile Phe Pro Leu Ser  
 115 120 125

Ile Asn Ser Asn Ser Trp Pro Ser Leu  
 130 135

<210> 138  
 <211> 61  
 <212> PRT  
 <213> Homo sapien

<400> 138

Met Asp His Glu Leu Pro Pro Asp Phe Ile Val Gly Gly Leu Pro Leu  
 1 5 10 15

Lys Lys Leu Gln Pro Thr Gln Pro Phe Tyr Lys Thr Cys Leu Val Leu  
 20 25 30

Pro Leu Arg Ser Phe Pro Ser Asn Leu Cys Phe Ser Pro Cys Ser Pro  
 35 40 45

Pro Tyr Glu Phe Ser Asn Phe Ser Ser Ser Ser Pro Val  
 50 55 60

<210> 139  
 <211> 41  
 <212> PRT  
 <213> Homo sapien

<400> 139

Met Pro Pro Gly Ile Phe Ser Pro Ser Phe Pro Phe Phe Ser Leu Ser  
 1 5 10 15

His Ser Glu Ala Val Gly Ser Phe Asp Glu His Ile Pro Ser Thr Gly  
 20 25 30

Gln Glu Ser Cys Cys Leu Ser Ile Trp  
 35 40

<210> 140  
 <211> 39  
 <212> PRT

<213> Homo sapien

<400> 140

Met Leu His Thr Ala Gly Cys Arg Asn Ala Ser Arg Gly Gly Ala Asp  
1 5 10 15

Thr Phe Arg Val Asp Arg Glu Arg Gly Leu Pro His Thr Asp Ser Gly  
20 25 30

Lys Ser Gln Gln Ser His Met  
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<210> 141

<211> 51

<212> PRT

<213> Homo sapien

<400> 141

Met Leu Pro Cys Arg Lys Ile Pro Ile Thr His His Val Ser Gln Cys  
1 5 10 15

Cys Val Trp Arg Pro Gly Phe Val Pro Leu Pro Arg Ile Ala Val Ala  
20 25 30

Asp Ile His Arg Asp Pro His Met Asp Val Cys Met Lys Ile Pro Leu  
35 40 45

His Arg His  
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<210> 142

<211> 40

<212> PRT

<213> Homo sapien

<400> 142

Met Leu Ala Asp Leu Ala Leu Ser Ser Ala Thr Ser Ser Thr Pro Val  
1 5 10 15

Ser Glu Ala Arg Asn Leu His Cys Ser Ser Glu Leu Pro Gln Asn Asp  
20 25 30

Val Leu Leu Ser Lys Glu Asn Ser  
35 40

<210> 143

<211> 192  
 <212> PRT  
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<400> 143

Pro Gln Lys Arg Lys Arg Gly Ala Glu Val Leu Thr Ala Gln Phe Val  
 1 5 10 15

Gln Lys Thr Lys Leu Asp Arg Lys Asn Gln Glu Ala Pro Ile Ser Lys  
 20 25 30

Asp Val Pro Val Pro Thr Asn Ala Lys Arg Ala Arg Lys Gln Glu Lys  
 35 40 45

Ser Pro Val Lys Thr Val Pro Arg Ala Lys Pro Pro Val Lys Lys Ser  
 50 55 60

Pro Gln Lys Gln Arg Val Asn Ile Val Lys Gly Asn Glu Asn Pro Arg  
 65 70 75 80

Asn Arg Lys Gln Leu Gln Pro Val Lys Gly Glu Leu Ala Ser Lys Leu  
 85 90 95

Gln Ser Glu Ile Ser Arg Gly Cys Gln Glu Asp Gly Ile Ser Ile Asn  
 100 105 110

Ser Val Gln Pro Glu Asn Thr Thr Ala Ala His Asn Asp Leu Pro Glu  
 115 120 125

Asn Ser Ile Val Asn Tyr Asp Ser Gln Ala Leu Asn Met Leu Ala Asp  
 130 135 140

Leu Ala Leu Ser Ser Ala Thr Ser Ser Thr Pro Val Ser Glu Ala Arg  
 145 150 155 160

Asn Leu His Cys Ser Ser Glu Leu Pro Gln Asn Asp Val Leu Leu Ser  
 165 170 175

Lys Glu Asn Ser Leu Arg Gly Thr Ser Asp His Glu Tyr His Arg Gly  
 180 185 190

<210> 144  
 <211> 24  
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&lt;400&gt; 144

Met Leu Pro Leu Gly Phe Leu Phe Gln Gln His Gly Val Lys Arg Arg  
 1 5 10 15

Ile Asn Leu Leu Cys Leu Leu Lys  
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&lt;210&gt; 145

&lt;211&gt; 733

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 145

Met Val Met Lys Ala Ser Val Asp Asp Asp Ser Gly Trp Glu Leu  
 1 5 10 15

Ser Met Pro Glu Lys Met Glu Lys Ser Asn Thr Asn Trp Val Asp Ile  
 20 25 30

Thr Gln Asp Phe Glu Glu Ala Cys Arg Glu Leu Lys Leu Gly Glu Leu  
 35 40 45

Leu His Asp Lys Leu Phe Gly Leu Phe Glu Ala Met Ser Ala Ile Glu  
 50 55 60

Met Met Asp Pro Lys Met Asp Ala Gly Met Ile Gly Asn Gln Val Asn  
 65 70 75 80

Arg Lys Val Leu Asn Phe Glu Gln Ala Ile Lys Asp Gly Thr Ile Lys  
 85 90 95

Ile Lys Asp Leu Thr Leu Pro Glu Leu Ile Gly Ile Met Asp Thr Cys  
 100 105 110

Phe Cys Cys Leu Ile Thr Trp Leu Glu Gly His Ser Leu Ala Gln Thr  
 115 120 125

Val Phe Thr Cys Leu Tyr Ile His Asn Pro Asp Phe Ile Glu Asp Pro  
 130 135 140

Ala Met Lys Ala Phe Ala Leu Gly Ile Leu Lys Ile Cys Asp Ile Ala  
 145 150 155 160

Arg Glu Lys Val Asn Lys Ala Ala Val Phe Glu Glu Glu Asp Phe Gln  
 165 170 175

Asp Pro Pro Val Leu Ser Pro Lys Cys Tyr Leu Tyr Asn Asn His Gln



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410

415

Ala Lys Asp Cys Ile Asp Ser Phe Val Thr His Cys Val Arg Pro Phe  
 420 425 430

Cys Ser Leu Ile Gln Ile His Gly His Asn Arg Ala Arg Gln Arg Asp  
 435 440 445

Lys Leu Gly His Ile Leu Glu Glu Phe Ala Thr Leu Gln Asp Glu Phe  
 450 455 460

Met Thr Phe Tyr Phe Asn Arg Ala Glu Lys Val Asp Ala Ala Leu His  
 465 470 475 480

Thr Met Leu Leu Lys Gln Glu Pro Gln Arg Gln His Leu Ala Cys Leu  
 485 490 495

Gly Thr Trp Val Leu Tyr His Asn Leu Arg Ile Met Ile Gln Tyr Leu  
 500 505 510

Leu Ser Gly Phe Glu Leu Glu Leu Tyr Ser Met His Glu Tyr Tyr Tyr  
 515 520 525

Ile Tyr Trp Tyr Leu Ser Glu Phe Leu Tyr Ala Trp Leu Met Ser Thr  
 530 535 540

Leu Ser Arg Ala Asp Gly Ser Gln Met Ala Glu Glu Arg Ile Met Glu  
 545 550 555 560

Glu Gln Gln Lys Gly Arg Ser Ser Lys Lys Thr Lys Lys Lys Lys Lys  
 565 570 575

Val Arg Pro Leu Ser Arg Glu Ile Thr Met Ser Gln Ala Tyr Gln Asn  
 580 585 590

Met Cys Ala Gly Met Phe Lys Thr Met Val Ala Phe Asp Met Asp Gly  
 595 600 605

Lys Val Arg Lys Pro Lys Phe Glu Leu Asp Ser Glu Gln Val Arg Tyr  
 610 615 620

Glu His Arg Phe Ala Pro Phe Asn Ser Val Met Thr Pro Pro Pro Val  
 625 630 635 640

His Tyr Leu Gln Phe Lys Glu Met Ser Asp Leu Asn Lys Tyr Ser Pro  
                   645                  650                  655

Pro Pro Gln Ser Pro Glu Leu Tyr Val Ala Ala Ser Lys His Phe Gln  
                   660                  665                  670

Gln Ala Lys Met Ile Leu Glu Asn Ile Pro Asn Pro Asp His Glu Val  
                   675                  680                  685

Asn Arg Ile Leu Lys Val Ala Lys Pro Asn Phe Val Val Met Lys Leu  
                   690                  695                  700

Leu Ala Gly Gly His Lys Lys Glu Ser Lys Val Pro Pro Glu Phe Asp  
                   705                  710                  715                  720

Phe Ser Ala His Lys Tyr Phe Pro Val Val Lys Leu Val  
                   725                  730

<210> 146

<211> 177

<212> PRT

<213> Homo sapien

<400> 146

Met Phe Phe Cys Val Gly Gly Tyr His Leu Val Phe Ser Arg Ser Ala  
   1                  5                  10                  15

Phe Phe Val Arg Gly Arg Cys Gly Gly Phe Ser Arg Arg Leu Leu Ala  
                   20                  25                  30

Leu Ser Val Ala Gly Leu Gly Val Gly Leu Ser Gly Val Phe Met Val  
                   35                  40                  45

Asp Ala Gly Trp Phe Ile Arg Ser Ser Gly Leu Leu Leu Phe Phe Cys  
                   50                  55                  60

Leu Phe Ser Ser Arg Leu Phe Ser Pro Ser Cys Ser Leu Arg Pro Arg  
                   65                  70                  75                  80

Ser Leu Leu Cys Ala Ala Val Ala Ser His Val Cys Pro Arg Arg Cys  
                   85                  90                  95

Val Phe Trp Ser Phe Ser Val Leu Ala Met Cys Leu Cys Val Cys Val  
                   100                  105                  110

Leu Leu Leu Leu Trp Ala Ala Pro Arg Val Val Val Thr Val Gly Ser  
 115 120 125

Leu Ser Pro Leu Cys Cys Cys Gly Ile Cys Glu Ala Gly Asn His Phe  
 130 135 140

Thr Pro Gly Asn His Ala Met Ser Pro Gly Tyr Pro Gln Leu Ile Gln  
 145 150 155 160

Thr Ser Lys Phe Trp Gly Gln Val Ile Leu Arg Pro Pro Arg Trp Phe  
 165 170 175

Phe

<210> 147  
 <211> 56  
 <212> PRT  
 <213> Homo sapien

<400> 147

Met Gln Asp Pro Val Leu Ser Asp Thr Arg Ser Ser Leu Gly Gly Val  
 1 5 10 15

Leu Gly Leu Leu Thr His Asn Phe Phe Thr Leu Val Leu Phe Trp Ser  
 20 25 30

Leu Ile Leu Ala Arg Asn Gln Pro Phe Gln Phe Leu Phe Lys Pro Lys  
 35 40 45

Lys Pro Leu Leu Val Gln Pro Gly  
 50 55

<210> 148  
 <211> 42  
 <212> PRT  
 <213> Homo sapien

<400> 148

Met Thr Asn Gly Arg Met Gly Leu Arg Cys Met Pro Ser Gly Ala Ser  
 1 5 10 15

Val Met Asp Ala Gly Arg Arg Ala Gly Thr Ala Asp Phe Gln Ser Lys  
 20 25 30

Asp Ile Tyr Leu Leu Tyr His Ile Ala Ser

[illegible]

40

<400> 149

Cys Arg Val Cys Gly Gly Tyr Thr Thr Leu Tyr  
20 25

<400> 150

Tyr Leu Gln Cys Ile Tyr Leu Thr Lys Asp Ser Tyr Pro Glu Tyr Ile  
20 25 30

Thr Arg Cys Thr Met Ala Ser Gln His Ile Leu Lys Arg Phe Ser Ile  
50 55 60

His Met Ile Thr Thr Leu Ala Lys Ile Lys Asn Thr Gln Asn Ala Lys  
85 90 95

Glu Cys Lys Ile Val His Leu Leu Trp Lys Arg Val Trp Glu Phe Leu  
115 120 125

Ala Lys Leu Asn Val Glu Leu Pro Tyr Asp Pro Ala Ile Pro Leu Leu  
130 135 140

Cys Ile Asp Pro Arg Glu Leu Lys Thr Tyr Gly Gln Asn Thr Thr Cys  
145 150 155 160

Ser Ala Met Phe Ile Met Thr Leu Phe Met Ile Ala Lys Lys Trp Lys  
165 170 175

Gln Pro Lys Cys Pro Ser Arg Cys Pro Ser  
180 185

<210> 151

<211> 201

<212> PRT

<213> Homo sapien

<400> 151

Met Pro Ser Pro Ser Arg Gly Val Ser Ile Leu Arg Ala Leu Pro Cys  
1 5 10 15

Ser Leu Val Arg Val Arg Gly Cys Phe Val Arg Leu Gly Ser Leu Pro  
20 25 30

Cys Pro Val Leu Val Arg Cys Tyr Phe Leu Phe Arg Leu Pro Phe Val  
35 40 45

Leu Ser Ala Ala Pro Gly Leu Pro Arg Leu Ser Pro Pro Ala Leu Ser  
50 55 60

Pro Pro Cys Pro Leu Arg Pro Ala Pro Ser Phe Leu Val Leu Leu Val  
65 70 75 80

Val Asp Val Trp Gly Asn Cys Ala Glu Ala Arg Asn Asn Pro Gln Cys  
85 90 95

Leu Ala Thr Thr Thr Ala Lys His Thr Pro Phe Val Thr Pro Met Glu  
100 105 110

Val Tyr Leu Leu Leu Lys Ala Leu Leu Arg Ser Arg Lys Pro Phe Pro  
115 120 125

Phe Pro Arg Gly Gly Pro Lys Leu Leu Gly Gly Pro Phe Pro Asn Gly  
130 135 140

Pro Lys Arg Lys Thr Ala Val Ser Arg Val Thr Lys Arg Glu Leu Gly  
145 150 155 160

Ile Leu Thr Phe Cys Pro Thr Cys Thr Tyr Gly Ser Tyr  
20 25

<210> 155  
 <211> 53  
 <212> PRT  
 <213> Homo sapien

<400> 155

Met Ile Val Leu Leu His Ser Ser Leu Gly Asp Thr Ala Ser Ser Cys  
 1 5 10 15

Phe Gln Thr Thr Thr Arg Lys Gln Asn Lys Lys Lys Lys Lys Lys Lys  
 20 25 30

Lys Lys Arg Leu Gly Tyr Trp Ala Ser Ser Gly Gly Gly Phe Phe Ser  
 35 40 45

Arg Pro Ser Pro Ile  
 50

<210> 156  
 <211> 81  
 <212> PRT  
 <213> Homo sapien

<400> 156

Trp Lys Gln Glu Leu Ala Val Ser Pro Arg Leu Glu Cys Ser Ser Thr  
 1 5 10 15

Ile Ile Ala His Ser Ser Leu Asp Leu Leu Cys Ala Asn Leu Pro Pro  
 20 25 30

Ala Ser Gly Ser Ala Val Ala Glu Thr Thr Gly Ala Cys Tyr His Thr  
 35 40 45

Trp Leu Ile Phe Lys Lys Met Phe Leu Glu Met Gly Ser His Asp Val  
 50 55 60

Ala Arg Ala Asp Leu Glu Leu Leu Ala Ser Asn Asn Tyr Ser Thr Ser  
 65 70 75 80

Ala

<210> 157  
 <211> 71  
 <212> PRT  
 <213> Homo sapien

&lt;400&gt; 157

Met His Ala Ser Cys Leu Lys Val Lys Asp Glu Gln Arg His His Trp  
 1 5 10 15

Thr Lys Leu Ser Trp Phe Ala Met Asn His Leu Ser Glu Gln Ala Asp  
 20 25 30

Asn Thr Pro Arg Tyr Ala Phe Ile Ser Thr Val Gly Thr Tyr Glu His  
 35 40 45

Gly Ile Pro Ile Ser Lys Ile Ser Asp Leu Phe Ser Leu Ser Val Arg  
 50 55 60

Thr Trp Tyr Val His Glu Gln  
 65 70

&lt;210&gt; 158

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 158

Phe Tyr Leu Phe Met Lys Gln Gly Leu Thr Leu Ser Pro Arg Leu Glu  
 1 5 10 15

Cys Asn Gly Met Ile Leu Ala His Cys Ser Leu Arg Leu Leu Gly Ser  
 20 25 30

Ser Asp Ser Leu Ala Ser Ala Ser Ala Val Ala Gly Thr Thr Gly Thr  
 35 40 45

Arg His His Ala Gln Arg Asn Phe Phe Val Phe Leu Val Glu Met Gly  
 50 55 60

Ser His His Val Ala Thr Arg Leu Val Ser Asn Ile Val Thr Ser Glu  
 65 70 75 80

Ala Asp Pro Thr Cys Pro Ala Ala Ser Arg Arg Val Leu Gly Ile Thr  
 85 90 95

Ser Ala Thr Ser His Tyr Ala Trp Thr Ser Ile Val  
 100 105

&lt;210&gt; 159

&lt;211&gt; 279



&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 159

Met Leu Ala Ala Pro Phe Trp Leu Leu Phe Ser Asp Phe Gln Leu Ser  
 1 5 10 15

Phe Pro Ile Gln Pro His His Thr Thr Gln Ser Cys Lys Cys His Ser  
 20 25 30

Pro Pro Ser Leu Cys Leu Pro Pro His Pro Ser Pro Leu His Pro Ser  
 35 40 45

Ser Pro Ser His Pro Arg Pro Ala Arg His Leu Leu Pro Leu Arg His  
 50 55 60

Pro Ser Thr Pro Pro Ser Pro Thr Ser Leu Pro Ala Leu Pro Ser Leu  
 65 70 75 80

Ser Pro Leu Ser Ser Ile Pro His His Pro Pro Ser Thr Thr Ala Ala  
 85 90 95

Ile Gln Leu Pro Pro Thr Pro His His Leu Arg Pro Thr His Asn Tyr  
 100 105 110

Ser Pro Ile Arg Ser Ser His Ser Thr Pro Ser Pro His Asn Thr Pro  
 115 120 125

Arg Pro Thr Pro Thr Pro Pro Pro Pro Arg Ile His Tyr Thr Thr Ile  
 130 135 140

Ser Pro Leu Asn Thr Thr Ser Pro Pro Leu His Ser Thr Leu Ser Ser  
 145 150 155 160

Pro Pro Pro Leu His Gln Tyr Asn Pro Ser Gln Tyr Ser Tyr Thr Ile  
 165 170 175

Ile Gln Thr Ala Thr Thr His Pro Gln Leu Ser His Thr Pro Met Arg  
 180 185 190

Thr Asn Asn His His Ser Ile Leu Tyr Pro Pro Ser Leu Ser Pro Pro  
 195 200 205

Pro Pro Arg Thr Arg His Thr Pro Pro Pro His His Arg His His Leu  
 210 215 220

Leu Leu Tyr Leu Leu Pro Pro Tyr Thr Arg Pro Pro Thr Pro Leu Arg  
225 230 235 240

Pro His Ser Ser Ser Thr Ile Tyr Thr Pro Pro Ala Tyr Ser Leu Pro  
245 250 255

Ile Thr Pro Thr Ile Ser Ser Leu Ser Pro Gln Leu Pro Pro Ser His  
260 265 270

Tyr His Leu Thr Thr Gln His  
275

<210> 160  
<211> 50  
<212> PRT  
<213> Homo sapien

<400> 160

Met Gln Thr Val Gly Phe Ala Gln Asp Phe His Asn Thr Gly Phe Asn  
1 5 10 15

Tyr Pro Ile Arg Asp Ser Gln Leu Gly Arg Asp Thr Leu Phe Arg Asn  
20 25 30

Pro Asn Phe Pro Phe Arg Asp Ile Trp Phe Tyr Thr Leu Arg Phe Tyr  
35 40 45

Ser Arg  
50

<210> 161  
<211> 91  
<212> PRT  
<213> Homo sapien

<400> 161

Met Tyr Asn Ser Tyr Val Ser Trp Gly Pro His Arg Pro Ser Thr Ile  
1 5 10 15

Val Pro Thr Phe Leu Phe Arg Asp Ser Ala Gln Pro Ser Phe Thr Thr  
20 25 30

Thr Arg Ala Arg Thr Ile His Val Val Ile Ser Leu Ser Leu Ser Asn  
35 40 45

Arg Gly Ser Thr Phe Ser Gln Lys Thr Phe Leu Ile Thr Arg Leu Thr  
 50 55 60

His Leu Ile Asn Lys Ala Ala Leu Phe Cys Arg Glu Arg Glu Leu Phe  
 65 70 75 80

Leu Ile Ala Thr Gln Gly Leu Phe Ser Arg Leu  
 85 90

<210> 162

<211> 109

<212> PRT

<213> Homo sapien

<400> 162

Met Phe Leu Asn Trp Arg Tyr Gln Tyr His Glu Asn Met Tyr Asn Asp  
 1 5 10 15

Leu Glu Ile Gln Tyr Leu Cys Met Asp Ile Cys Phe Val Lys Phe Val  
 20 25 30

Ser Gly Asp Phe Val Glu Arg Glu Arg Asn His Phe Pro His Thr Thr  
 35 40 45

Gly Asn Thr Ala Met Ala Thr Arg Gly Asn Arg His Gln Arg Leu Phe  
 50 55 60

Phe Phe Val Leu Tyr Met Phe Ser Ser Asp Gly Ser Leu Ala Val Leu  
 65 70 75 80

Pro Gly Trp Ser Ala Val Ala Arg Ser Arg Gly Ser Leu Gln Pro Leu  
 85 90 95

Thr Pro Gly Ser Thr Asp Ser Pro Gly Ser Ala Ser Gln  
 100 105

<210> 163

<211> 44

<212> PRT

<213> Homo sapien

<400> 163

Met Thr Met Gln Ala Thr Pro Thr Leu Ser Ser Pro Met Asn Thr Pro  
 1 5 10 15



Ser Asn Arg Gly Ile Leu Ser Arg Ile Tyr Lys Lys Pro Leu Lys Thr  
1 5 10 15

Ala Arg His Phe Thr Glu Glu Asp Thr Ala Met Ala Asn Ala His Thr  
35 40 45

Cys Gly Ile Ile Thr Thr Ser Met Ala Met Val Lys Ile Lys Asn Ser  
65 70 75 80

His Cys Cys Leu Asn Cys Met Ser Gly Cys Met Ala Lys Val Glu Pro  
100 105 110

Pro Tyr Asn Pro Thr Val Ala Leu Leu Ser Ile Tyr Pro Glu Asn Glu  
130 135 140

Ile Arg Ala Lys Asn Ala Lys Gln Leu Leu Cys Pro Leu Val Gly Glu  
165 170 175

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Ile Lys Arg Asn Cys Pro His Phe Thr Thr Met Gln Tyr Met His Val
      195                                200                205

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<210> 167

110

<211> 127  
<212> PRT  
<213> Homo sapien

<400> 167

Met Ser Ile Gly Leu Asn Phe Thr Pro Arg Met Val Ala Arg Asp Met  
1 5 10 15

Val Tyr Phe Val Pro Ile Leu Trp Thr Trp Arg Thr His Ala Ile Asp  
20 25 30

Tyr Ala Lys Arg Arg Glu Thr Asn Thr Trp Val His Thr Pro Lys Ile  
35 40 45

Pro Ala Leu Lys Arg Arg His Ser Ser Gly Thr Ile Ser Ala Thr Asn  
50 55 60

Trp Gly Gly Leu Phe Thr Gln Gly Cys Lys Val Gly Lys Glu Lys Pro  
65 70 75 80

Ser Leu Pro Leu Thr Ser His Glu Gln Phe Cys Ala Gly Val Tyr Pro  
85 90 95

Ile Asn Thr Thr Gln Arg Thr Ile Ile Pro Pro Arg Gly Leu Leu Pro  
100 105 110

Ser Leu Ser Pro Leu Pro Gly Glu Phe Thr Phe Phe Val Met Trp  
115 120 125

<210> 168  
<211> 60  
<212> PRT  
<213> Homo sapien

<400> 168

Met Asp Pro Leu His Cys Pro Phe Thr Thr Ala Ala Thr Ser Leu Ser  
1 5 10 15

Tyr Thr Leu Thr Pro Thr Cys Gly Tyr His Cys Ser Val Leu His Leu  
20 25 30

Cys Asn Phe Val Ile Ser Arg Met Leu Tyr Glu Trp Asn His Thr Glu  
35 40 45

Cys Asn Leu Thr Arg Leu Ile Phe Phe His Ser Ala  
50 55 60

<210> 169  
 <211> 211  
 <212> PRT  
 <213> Homo sapien

<400> 169

Pro Phe Ser Phe Leu Phe Arg Ala Leu Phe Ala Phe Phe Asp Pro Ala  
 1 5 10 15

Leu Ser Ile Leu Val Leu Ala Ile Ser Phe His Leu Pro Ile Asn Ser  
 20 25 30

Leu Ala Cys Leu Arg Glu Glu Ile His Lys Asp Leu Leu Val Thr Gly  
 35 40 45

Ala Tyr Glu Ile Ser Asp Gln Ser Gly Gly Ala Gly Gly Leu Arg Ser  
 50 55 60

His Leu Lys Ile Thr Asp Ser Ala Gly His Ile Leu Tyr Ser Lys Glu  
 65 70 75 80

Asp Ala Thr Lys Gly Lys Phe Ala Phe Thr Thr Glu Asp Tyr Asp Met  
 85 90 95

Phe Glu Val Cys Phe Glu Ser Lys Gly Thr Gly Arg Ile Pro Asp Gln  
 100 105 110

Leu Val Ile Leu Asp Met Lys His Gly Val Glu Ala Lys Asn Tyr Glu  
 115 120 125

Glu Ile Ala Lys Val Glu Lys Leu Lys Pro Leu Glu Val Glu Leu Arg  
 130 135 140

Arg Leu Glu Asp Leu Ser Glu Ser Ile Val Asn Asp Phe Ala Tyr Met  
 145 150 155 160

Lys Lys Arg Glu Glu Glu Met Arg Asp Thr Asn Glu Ser Thr Asn Thr  
 165 170 175

Arg Val Leu Tyr Phe Ser Ile Phe Ser Met Phe Cys Leu Ile Gly Leu  
 180 185 190

Ala Thr Trp Gln Val Phe Tyr Leu Arg Arg Phe Phe Lys Ala Lys Lys  
 195 200 205

Leu Ile Glu  
210

<210> 170  
<211> 49  
<212> PRT  
<213> Homo sapien

<400> 170

Met Val Ser Thr His Gln Arg Glu Thr Ser Tyr Asp His Gly Leu Thr  
1 5 10 15

Pro Lys Leu Ser Gly Val Asn Leu Leu Lys Asn Lys Ile Arg Lys Thr  
20 25 30

Glu Lys Cys Tyr Lys Pro Asn Asn Leu Lys Ile Gly Leu Lys Met Asn  
35 40 45

Asn

<210> 171  
<211> 146  
<212> PRT  
<213> Homo sapien

<400> 171

Met Phe Ala Val His Thr Ser Arg Phe Ala Val Gln Leu Arg Pro Phe  
1 5 10 15

Val Leu Pro Leu Cys Phe Val Leu Thr His Phe Trp Leu Leu Thr Pro  
20 25 30

Gly Pro Ile His Thr Lys Val Phe Pro Pro Thr Ser Asn Ile Arg Ala  
35 40 45

Thr Arg Ser His Thr Thr Thr Thr Pro His Glu Pro Ala Leu His Thr  
50 55 60

Pro His Pro Asp Pro Ala Pro Ser Thr Ser His Thr Pro His His Pro  
65 70 75 80

Leu Asn Pro Pro Pro Thr His Thr Gln Pro Ser Leu Pro Thr Thr Pro  
85 90 95



Leu Pro His Thr Pro His Thr Thr Thr Thr Pro His Thr Ser Thr Thr  
100 105 110

Pro Thr Thr Pro Arg Thr Pro Thr His Pro Thr His Thr Pro Gln Pro  
115 120 125

Thr Arg Pro His Thr His Pro His Thr Leu Thr Gln His Asn Asn Gln  
130 135 140

Pro Pro  
145

<210> 172

<211> 78

<212> PRT

<213> Homo sapien

<400> 172

Met Cys Thr Gln Ser Thr Thr Pro Gly Cys Asp Arg Thr Leu Gln Gly  
1 5 10 15

Asp Thr Glu Ala His Trp Ser Arg Ala Arg Ala Pro Pro Lys Arg Thr  
20 25 30

Ala Lys Gln Gly Ala Gln His Ser Thr Ala Pro Arg Gln Arg Ser Phe  
35 40 45

Ser Arg Trp Pro Ser Ala Cys Pro Glu Gly His Ala Ala Gly Glu Arg  
50 55 60

Gly Phe Gly Asn Pro Pro Ala Trp Thr Asp Thr Leu Arg Arg  
65 70 75

<210> 173

<211> 78

<212> PRT

<213> Homo sapien

<400> 173

Met Tyr Lys Asn Glu Arg Tyr His Ala His His Thr Arg Val Val Gly  
1 5 10 15

Glu Leu Pro Met Gly Leu Pro Ser Ser Arg Arg Arg Ser Ser Cys Arg  
20 25 30

114

Thr Thr Cys Lys His Thr Ser Arg Glu Thr Leu Ser Gly Gln Thr Ser  
35 40 45

Ser Thr Thr Thr Ser Pro His Ala Arg Val Glu Leu Val Ile Ala Gln  
50 55 60

Ala Ser Gln Pro Val Cys Pro Ala Ile Ile Leu Leu Tyr Ile  
65 70 75

<210> 174

<211> 111

<212> PRT

<213> Homo sapien

<400> 174

Met Leu Asp Thr Ile Glu Ser His Arg Gly Lys Ala Pro Ile Thr Lys  
1 5 10 15

Arg Glu Arg Ser Ala Cys Phe Glu His Glu Leu Ser Lys Met Arg Glu  
20 25 30

Ser Met Arg Phe Lys Ala Ser Ala Ser Lys Leu Gly His Leu Val Asp  
35 40 45

Glu Lys Thr Tyr Gly His Pro Glu Gly Leu Trp Lys Thr Gln Pro Arg  
50 55 60

Thr His Ser Pro Gln Asp Thr Cys Leu Lys Ser Gly Ser Lys Pro Ser  
65 70 75 80

Cys Leu Gly Lys Glu Glu Gly Leu Gln Ser Ala Ala Asn Glu Arg Thr  
85 90 95

Leu Thr Lys Gly Lys Ile His Thr Arg Pro Asp Gln Pro Ile Arg  
100 105 110

<210> 175

<211> 134

<212> PRT

<213> Homo sapien

<400> 175

Met Cys Tyr Arg Glu Arg Cys Leu Leu Leu Val Glu Arg Thr His Thr  
1 5 10 15

Leu Cys Ala Pro Thr Gln Cys Ser Val Val Gly Asp Asn Arg Ala Cys

20

25

30

Leu Ser Arg Leu Gln Arg Asp Ile Trp Ala Phe Phe Phe Phe Ser Arg  
 35 40 45

Arg Gly Ala Asp Thr Leu His Thr Arg Glu Val Cys Arg Ala Thr Tyr  
 50 55 60

Ile Ser Thr Gly Leu Ser Arg Glu Arg Tyr Leu Phe Ser Ser Leu Ser  
 65 70 75 80

Cys Gly Glu Asn Ser Leu Trp Cys Gly Asp His Thr Ala Arg His Lys  
 85 90 95

Arg Ser Ser Leu Ser Ser Val Lys His Ser Arg Arg Cys Leu His Lys  
 100 105 110

Asn Tyr Leu Ala Arg Pro Asn Arg Leu Leu Phe Phe Ile Phe Leu Asn  
 115 120 125

Ser Leu Trp Gly Gly Lys  
 130

<210> 176

<211> 234

<212> PRT

<213> Homo sapien

<400> 176

Met Phe Val Leu Leu Cys Cys Leu Cys Leu Cys Leu Ser Val Cys  
 1 5 10 15

Phe Cys Leu Leu Ser Phe Gly Leu Cys Trp Val Leu Ser Cys Val Val  
 20 25 30

Leu Cys Val Val Phe Cys Phe Val Leu Phe Val Cys Val Leu Phe Phe  
 35 40 45

Val Leu Ser Leu Leu Phe Phe Leu Cys Cys Phe Cys Gly Phe Val Phe  
 50 55 60

Phe Leu Phe Cys Phe Val Cys Val Phe Phe Cys Cys Cys Val Leu Phe  
 65 70 75 80

Ser Phe Leu Leu Phe Val Phe Phe Ser Leu Cys Phe Phe Phe Val Leu

116

85

90

95

Phe Ser Met Phe Leu Val Val Val Leu Phe Cys Leu Gly Leu Leu Phe  
100 105 110

Phe Phe Phe Cys Ser Val Ser Leu Cys Leu Phe Gly Phe Leu Leu Phe  
115 120 125

Phe Ser Phe Leu Phe Ser Leu Val Phe Val Val Leu Val Leu Phe Ala  
130 135 140

Cys Phe Trp Val Phe Ala Cys Cys Phe Cys Val Phe Phe Pro Phe Cys  
145 150 155 160

Leu Leu Val Phe Phe Phe Phe Leu Phe Phe Val Phe Arg Leu Phe Phe  
165 170 175

Phe Ser Phe Ser Leu Phe Ser Phe Phe Ala Phe Val Val Val Leu Cys  
180 185 190

Phe Leu Phe Phe Phe Leu Val Val Phe Phe Val Phe Phe Phe Phe  
195 200 205

Phe Phe Ser Phe Ser Phe Phe Pro Leu Phe Phe Val Phe Phe Phe Phe  
210 215 220

Phe Phe Phe Phe Ser Phe Gly Ser Ser Arg  
225 230

<210> 177

<211> 123

<212> PRT

<213> Homo sapien

<400> 177

Met Ser Val Phe Ala Leu Ala Gly Arg Ser Cys Cys Cys Ser Val Cys  
1 5 10 15

Cys Arg Val Ser Pro Val Cys Arg Leu Leu Cys Ser Cys Val Ser Phe  
20 25 30

Leu Cys Cys Leu Ala Ala Ser His Ile Ile Ser Ser Leu Gly Ile Arg  
35 40 45

Leu Leu Thr Val Tyr Leu Tyr Ser Cys Phe Ser Ile Phe Ala Cys Leu

116  
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225  
230

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<210>   178  
<211>     83  
<212>    PRT  
<213> Homo sapien  
  
<400>   178  
  
Met Gly Arg Lys Thr Ile His Thr Gly Thr Leu Trp Pro Arg Leu Pro  
1              5                      10                    15  
  
Pro Thr Phe Phe Phe Phe Asp Ile Phe Phe Phe Ser Arg Arg Ser Leu  
                20                     25                   30  
  
Ala Leu Leu Pro Arg Leu Glu Cys Ser Gly Ala Ile Ser Ala His Cys  
        35                        40                  45  
  
Asn Phe Cys Leu His Lys Phe Lys Gln Phe Ser Cys Leu Ser Leu Gln  
    50             55                 60  
  
Ser Ser Trp Asp Tyr Arg Arg Val Pro Leu Cys Pro Ala Asn Phe Tyr  
65          70               75            80
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<210>	179
<211>	71
<212>	PRT
<213>	Homo sapien

Met Arg Val Ser Thr Phe Val Arg Tyr Pro Arg Gly Asp Leu Thr Cys  
1 5 10 15

Ala Gly Val Arg Ser Phe Ala Ser Arg Ser Leu Tyr His Val Val Arg  
20 25 30

Leu Leu Val Gly Arg His Leu Ser Gly Asp Arg Val Ser Thr Pro Ser  
35 40 45

Trp Pro Leu Ile Ala Ala Asp Cys Gln His Gly Leu Tyr Asp Leu Leu  
50 55 60

Leu Ile Ser Ser Tyr Val Pro  
65 70

<210> 180

<211> 84

<212> PRT

<213> Homo sapien

<400> 180

Met Phe Cys Leu Val Trp Gly Thr His His Leu Gly Cys Arg Arg Ala  
1 5 10 15

Arg Gly Trp Leu Ile Thr Pro Pro Pro Cys Cys Ala Asn Thr Asn Pro  
20 25 30

Arg Arg Gly Ile Thr Asn Ala Leu Ile Leu Glu Ala His Pro Trp Arg  
35 40 45

Val Tyr Tyr Ala Pro Pro Thr Gly Phe Leu Gln Pro Arg Gly Gly His  
50 55 60

Thr Ala Phe Asn Ser Val Val Ala Thr Arg Ser Cys Arg Gly Pro Pro  
65 70 75 80

Thr Gly Gly Trp

<210> 181

<211> 74

<212> PRT

<213> Homo sapien

<400> 181

Met Glu Ser Thr Leu Arg Cys Ala Thr Pro Gly Pro Asp Thr Leu Gln  
1 5 10 15

Met Leu Lys Ser Phe Phe Phe Ser Leu Arg Gly Trp Gly Trp Arg Gly  
1 5 10 15

120

Asp His Val Asn Phe Ser Gly Leu Gln Arg Lys Cys Gly Phe Val Asp  
20 25 30

Leu Gln Leu Phe Val Pro Phe Val Leu Ser Leu Cys Glu Ile Asn Thr  
35 40 45

Ser Lys Thr Phe Thr Pro Pro Leu Leu Ser Arg Gly Ala Tyr Ile Ser  
50 55 60

Arg Val Ala His Asn Ser Arg Val Ser Ala Gly Cys Glu Ser Val Phe  
65 70 75 80

Thr Arg Leu Pro Ile Pro Pro Lys Thr Ser Lys Lys Gly Val Pro Thr  
85 90 95

Lys Gly Thr Lys Glu Lys Lys Lys Pro  
100 105

<210> 184

<211> 60

<212> PRT

<213> Homo sapien

<400> 184

Met Asp Pro Leu His Cys Pro Phe Thr Thr Ala Ala Thr Ser Leu Ser  
1 5 10 15

Tyr Thr Leu Thr Pro Thr Cys Gly Tyr His Cys Ser Val Leu His Leu  
20 25 30

Cys Asn Phe Val Ile Ser Arg Met Leu Tyr Glu Trp Asn His Thr Glu  
35 40 45

Cys Asn Leu Thr Arg Leu Ile Phe Phe His Ser Ala  
50 55 60

<210> 185

<211> 218

<212> PRT

<213> Homo sapien

<400> 185

Ser Gly Leu Phe Gly Pro Pro Ala Arg Arg Gly Pro Phe Pro Leu Ala  
1 5 10 15

Leu Leu Leu Phe Phe Leu Leu Gly Pro Arg Leu Val Leu Ala Ile Ser



20

25

30

Phe His Leu Pro Ile Asn Ser Arg Lys Cys Leu Arg Glu Glu Ile His  
 35 40 45

Lys Asp Leu Leu Val Thr Gly Ala Tyr Glu Ile Ser Asp Gln Ser Gly  
 50 55 60

Gly Ala Gly Gly Leu Arg Ser His Leu Lys Ile Thr Asp Ser Ala Gly  
 65 70 75 80

His Ile Leu Tyr Ser Lys Glu Asp Ala Thr Lys Gly Lys Phe Ala Phe  
 85 90 95

Thr Thr Glu Asp Tyr Asp Met Phe Glu Val Cys Phe Glu Ser Lys Gly  
 100 105 110

Thr Gly Arg Ile Pro Asp Gln Leu Val Ile Leu Asp Met Lys His Gly  
 115 120 125

Val Glu Ala Lys Asn Tyr Glu Glu Ile Ala Lys Val Glu Lys Leu Lys  
 130 135 140

Pro Leu Glu Val Glu Leu Arg Arg Leu Glu Asp Leu Ser Glu Ser Ile  
 145 150 155 160

Val Asn Asp Phe Ala Tyr Met Lys Lys Arg Glu Glu Glu Met Arg Asp  
 165 170 175

Thr Asn Glu Ser Thr Asn Thr Arg Val Leu Tyr Phe Ser Ile Phe Ser  
 180 185 190

Met Phe Cys Leu Ile Gly Leu Ala Thr Trp Gln Val Phe Tyr Leu Arg  
 195 200 205

Arg Phe Phe Lys Ala Lys Lys Leu Ile Glu  
 210 215

<210> 186

<211> 139

<212> PRT

<213> Homo sapien

<400> 186

Met Gln Val Val Ser Phe Leu Phe Pro Arg Ser Ser Cys Ser Asn Asp

1  
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Ser Ser Pro Gly Glu His His Gly Gly Asn Met His Ile Gly Arg Tyr  
20 25 30

Gly Ser Ala Cys Ala Ile Val Arg Gly Ala Leu Trp Glu Asp Phe Ile  
35 40 45

Met His Leu Ser Phe Arg Met Cys Pro Arg Val Ile Ser Glu Lys Glu  
50 55 60

Gly Thr Val Glu Arg Ala Phe Leu Lys Gly Ile Lys Val Ala Leu Leu  
65 70 75 80

Ile Ser Val Cys Arg Phe Met Ser Pro Ser Trp Ile Pro Trp Trp Ala  
85 90 95

Pro Asn Asn Ala Ala Pro Lys Ile Gln Val Phe Arg Ile Ile Tyr Pro  
100 105 110

Leu Leu Pro Tyr His Thr Gly Gly Thr Gly Thr Ser Gln Val Val Gly  
115 120 125

Ser Arg Met Glu Val Gly Val Tyr Gly Val Arg  
130 135

<210> 187  
<211> 118  
<212> PRT  
<213> Homo sapien

<400> 187

Met Leu Trp Gly Trp Gly Pro Arg Val Ala Leu Gln Arg Leu Val Tyr  
1 5 10 15

Ser Pro Ala Ser Leu Gly Gly Ala Arg Val Gly Val Val Ile His Gly  
20 25 30

Trp Ser Asn Glu Tyr Leu Thr Thr Tyr Pro Ala Val Leu Thr Pro Phe  
35 40 45

Glu Pro Arg Val Leu Tyr Leu Lys Lys Tyr Ser Pro Lys Gln Thr Gln  
50 55 60

Ile Phe Ala Ala Val Gly Gly Gly Ala Pro Phe Gly Leu Ser Pro Arg

Tyr Pro Gly Gly Cys Gly Gly Thr Glu Lys Trp Gly Val Cys Pro Trp  
85 90 95

Ala Pro Arg Val Asp Val  
115

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Met Trp His Thr Ser Val Gly Thr Ser Leu His Leu Ser His Thr Glu  
1 5 10 15

Phe Ser Arg Cys Gly Lys Arg Gly Met Ser Pro Thr Arg Cys Ala Leu  
20 25 30

Trp Val Ala His Lys Asn Thr Gln Arg Arg Glu Glu Arg Val Trp Cys  
35 40 45

Gly Val Val Asp Glu Gly Pro Val Gly Glu Arg Glu Arg His Thr Pro  
50 55 60

Pro Cys Arg Glu Arg Ala Gly Glu Thr His Arg Trp Ser Ser His Thr  
65 70 75 80

Cys Glu Thr Leu Ser Pro Thr Gly Gly Arg Glu Lys Cys Val Ala Pro  
85 90 95

Gly Ser Pro Cys Ala His Thr Ile Lys Glu Gly Asp Asp Thr Gln Lys  
100 105 110

Thr Met Cys Ala Arg Val Arg Lys Thr Ile Val Arg Glu Arg Gly Val  
115 120 125

Val Gly Ala Ser Gly Arg Ala Arg Gly Gly Arg Leu Thr Arg Ala Pro  
130 135 140

Val Arg Asn Leu Pro Glu Thr Thr Cys Val Trp Arg Gly Ala His Arg

[illegible]

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Gly Arg Arg Gly Asp Ser His Arg Glu Trp Val Tyr Lys Glu Arg Cys  
165 170 175

Val Arg His Thr Gln Leu Ala Cys Ala Arg Asn Thr His Ala Arg Arg  
180 185 190

Lys Tyr Pro Arg Gly Ser Leu Ser Thr Gln  
195 200

<210> 189

<211> 102

<212> PRT

<213> Homo sapien

<400> 189

Met Thr Ile Ser Ile Gly Leu Cys Asp Val Tyr Asn Gln Trp Thr Ser  
1 5 10 15

Leu Arg Leu Gly Phe Pro Val Ile Gly Cys Lys Gln Tyr Ala Cys Ser  
20 25 30

Ser Gly Phe Thr Asp Met Tyr Pro Cys Ser Thr Tyr Ile Ser Gly Arg  
35 40 45

Pro Ala Asn Lys Pro Ser Gly Asn Gly Trp Arg Arg Arg Val Ala Tyr  
50 55 60

Gly Arg Arg Arg Pro Gly Asp Ser Ser Arg Glu Asn Glu Pro Ala Ile  
65 70 75 80

Thr Thr Val Gly Ile Val His Ser Lys Arg Asn Lys Pro Arg Trp Arg  
85 90 95

Glu Leu Arg Ile Pro Ala  
100

<210> 190

<211> 65

<212> PRT

<213> Homo sapien

<400> 190

Met Leu Leu Ser Ser Ser Arg Pro His Lys Asp Val Asp Ser Gln Asn  
1 5 10 15

Ser Asp Pro Val Pro Ala Asp Asp Asp Ala Ala Arg Leu Gln Val Ile  
20 25 30

Ser Tyr Thr Ile Val Gly Asp Gly Val Arg Leu Leu Glu Ala Ser Met  
35 40 45

Phe Lys Glu Tyr Ile Arg Gln Leu His Ala Thr His Trp Ile Arg Ser  
50 55 60

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<210> 191  
<211> 145  
<212> PRT  
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<400> 191

Met Thr Val Val Tyr Ala Gln Thr Asn Lys Lys Lys Thr Lys Lys Thr  
1 5 10 15

Lys Glu Thr Pro Trp Gly Val Thr Pro Tyr Gly Gly Pro Met Arg Arg  
20 25 30

Cys Val Ser Pro Trp Val Val Glu Thr Val Cys Val Leu Ser Gly Asn  
35 40 45

Thr Asn Ile Leu Pro Pro His Asn Ile Leu Arg Arg Pro Gln Thr Gln  
50 55 60

Lys His Thr Thr His Asn Pro Arg Thr Thr Leu Gln Gln Thr Thr Pro  
65 70 75 80

Glu Lys Glu Leu Val Ala Ala Gln Val Lys Gln Gly Ala Pro Ala Ser  
85 90 95

Pro Gln Lys Thr Pro Ile Glu Gln Cys Arg Lys Lys Arg Ser Thr Gly  
100 105 110

Arg Glu Arg Leu Met Pro Gln Leu Glu His Glu Glu Lys Pro Asn Cys  
115 120 125

Asn Leu Pro Thr Lys Cys Asp Glu Ile Arg Gln Glu Ala Ser Arg Arg  
130 135 140

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$\langle 211 \rangle$	151

<212> PRT  
 <213> Homo sapien

<400> 193

Met Trp Phe Cys Ile Phe Pro Leu Leu Ala Cys Leu Pro Ser Leu Ala  
 1 5 10 15

Phe Leu Phe Ser Phe Ala Ser Arg Leu Cys Leu Ser Val Pro Cys Val  
 20 25 30

Phe Ala Ser Thr Asp Leu Leu Pro Gly Phe Ser Trp Leu Ala Tyr Ser  
 35 40 45

Pro Val Asp Cys Leu Phe Ala Trp Glu Leu Phe Arg Leu Leu Leu Ser  
 50 55 60

Pro Leu Val Ser Val Val Gly Ser Trp Phe Leu Ala Leu Cys Ser Leu  
 65 70 75 80

Ala Cys Val Arg Leu Val Ser Ser Phe Glu Ser His Ala Gly Val Trp  
 85 90 95

Trp Cys Val Cys Val Val Val Ala Leu Gln Tyr Cys Leu Ser Leu Val  
 100 105 110

Leu Leu Ser Leu Ser Phe Val Ser Asp Val Leu Ser Tyr Phe Ser Leu  
 115 120 125

Gly Leu Leu Gln Cys Phe Ser Val Leu Gly Leu Ser Val Leu Leu Met  
 130 135 140

Ser Leu Ile Ala Phe Tyr Leu  
 145 150

<210> 194  
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<400> 194

Met Thr Leu Ser Glu Ile Ala Arg Gln Arg Thr Glu Pro Gln Lys Tyr  
 1 5 10 15

Asp Gln Lys Arg Glu Asn Lys Asn Pro Gln Arg Gln Thr Asp Lys Glu  
 20 25 30

Arg Thr Lys Met Asn Lys Lys Thr Lys Lys Lys Lys Asn Thr Arg Arg  
 35 40 45

Glu Arg Lys Lys Glu Thr Thr Arg Lys Thr Arg Asn Lys Glu Arg Ser  
 50 55 60

Glu Thr Asn Arg Thr Lys Glu Gln Gln Lys Gln Asn Glu Gln Lys Asn  
 65 70 75 80

Asn Gly Thr Thr Thr Pro Pro Arg Lys Pro Lys Gln Arg Lys Gln Lys  
 85 90 95

Arg Ala Pro Leu Ser Arg His Thr Asn Arg Glu Arg Lys Thr Lys Asp  
 100 105 110

Thr Asn Asn Gln Asn Thr His Ile Val Gly  
 115 120

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<211> 90

<212> PRT

<213> Homo sapien

<400> 195

Met Cys Phe Phe Phe Cys Phe Val Phe Phe Leu Leu Leu Phe Phe Ala  
 1 5 10 15

Cys Val Cys Cys Val Phe Cys Met Phe Leu Phe Val Cys Val Leu Leu  
 20 25 30

Ala Gly Arg Ser Phe Phe Val Phe Met Phe Gly Ser Pro Leu Phe Ser  
 35 40 45

Leu Cys Val Ser Pro Ala Tyr Met Cys Val Cys Val Trp Arg Asp Met  
 50 55 60

Cys Glu Ser Ala Arg Tyr Ile Thr His Phe Tyr Thr His Thr Gly Glu  
 65 70 75 80

Thr His Ser Ile Cys Glu Thr Thr Gly Glu  
 85 90

<210> 196

<211> 310

<212> PRT

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&lt;213&gt; Homo sapien

&lt;400&gt; 196

Met Thr Ala Thr Thr Ala Ser Cys Gly Gly Gly Asn Asn Thr Pro Ala  
 1 5 10 15

Val Pro Pro Thr Pro Arg Gly Glu Ala His Ile Ser Thr Leu Val Trp  
 20 25 30

Cys Phe Arg Asp Ile Pro Pro Ala Ala Glu Leu Leu Trp Ala Pro Leu  
 35 40 45

Gly Val Leu Tyr Phe Ile His Leu Phe Leu Pro Leu Cys Leu Trp Gly  
 50 55 60

Asp Pro Pro Ala Tyr Lys Val Ile Ser Val Met Ile Leu His His Ile  
 65 70 75 80

Ile Val Phe Phe Leu Gly Glu Asp Thr Leu Gly Gly Asp Thr Thr Ser  
 85 90 95

Arg Gly Val Tyr Ala Pro Leu Pro His Met Arg Gly Ala Tyr Ser Ala  
 100 105 110

Pro Ser Glu Gly Ala His Pro Pro His Thr Leu Trp Ser His Ser Leu  
 115 120 125

Leu Cys Val Leu Pro Pro Ser Leu Ser Leu Ser Glu Arg Glu Ser Leu  
 130 135 140

Ser Thr Gln Pro His Thr His Arg Gly Ala His Thr His Ser Val Val  
 145 150 155 160

Cys Val Cys Leu Trp Ser Leu His Ser Gly Arg Leu Leu Tyr His Pro  
 165 170 175

Arg Gly Glu Thr Leu Cys Asp Asp Thr Ala Gly Ala Ala Leu Leu Glu  
 180 185 190

Arg Ala Thr Gln Ser Val Arg His Asn Ser Leu Thr Leu Phe Asn Arg  
 195 200 205

Asp Ala Arg Arg Val Trp Arg Asp Ala Thr Pro His Thr Arg Ser Leu  
 210 215 220

Ala His Thr His Arg Glu Arg His Thr His Thr His Val Asn Ala Ala  
225 230 235 240

Ala Thr Ala Thr Ala Leu Thr His Ser Arg Val Thr Arg Asp Ala Arg  
245 250 255

Ala Ala Ala Thr Ala Gly Arg Ser Val Ser Pro Thr Gln Arg Glu Ala  
260 265 270

Thr His Ser Ala Arg Ala His Ala Cys His His Ala His Ser Arg Glu  
275 280 285

Gly Glu Arg Asn Pro Leu Gly Glu Arg Arg His Thr Val Gly Ala Leu  
290 295 300

Thr Thr Arg Ser Val Thr  
305 310

<210> 197

<211> 122

<212> PRT

<213> Homo sapien

<400> 197

Met Phe Lys Ser Leu Asn Gln Tyr Arg Thr Leu Thr Pro Ser Gly Asn  
1 5 10 15

Ser Asp Leu Pro Ser Ala Lys Leu Ser Arg Gln Ile Arg Phe Thr Ala  
20 25 30

Lys Thr Pro Pro Phe Thr Gln Tyr Thr Thr Arg Pro His Thr Leu Tyr  
35 40 45

Leu Ser Val Pro Cys Thr Leu Ser Ser Arg Ser Ser Asp Phe Arg His  
50 55 60

Thr Leu Glu Val Gly Lys Leu Leu Leu Met Leu Pro Leu Thr Gln Ser  
65 70 75 80

Ile Arg Phe Asp Arg Tyr Ser Cys Met Gln Leu Gln Lys Val Ser Tyr  
85 90 95

Phe Ser Ser Asp Ala Met Ser Thr Ala Ala Asp Gln Arg Tyr His Gly  
100 105 110

Val Tyr Arg Ile Cys Val Tyr Leu Lys Arg  
 115 120

<210> 198  
 <211> 91  
 <212> PRT  
 <213> Homo sapien  
 <400> 198

Met Glu Ser Arg Ser Val Ala Gln Ala Gly Val Gln Trp Arg Asp Leu  
 1 5 10 15

Ser Ser Leu Gln Leu Leu Pro Pro Gly Ile Lys Arg Phe Ser Cys Leu  
 20 25 30

Ser Leu Leu Ser Ser Trp Asp Tyr Arg His Pro Pro Pro Cys Pro Ala  
 35 40 45

Asn Phe Cys Val Phe Ser Arg Asp Gly Leu Ser Pro Cys Trp Pro Val  
 50 55 60

Trp Pro Arg Thr Pro Asp Pro Arg Ile Leu Leu Pro Gln Pro Pro Lys  
 65 70 75 80

Val Leu Gly Leu Gln Thr Cys Pro Gly Gly Arg  
 85 90

<210> 199  
 <211> 107  
 <212> PRT  
 <213> Homo sapien  
 <400> 199

Met Thr Lys Gln Ser Ser Ile Thr Pro Pro Lys Asp His Val Ser Ser  
 1 5 10 15

Pro Ala Met Asp Pro Asn Gln Glu Glu Ile Ser Glu Leu Pro Glu Lys  
 20 25 30

Glu Phe Arg Arg Pro Ile Ile Gln Leu Leu Lys Glu Thr Pro Asp Lys  
 35 40 45

Gly Val Asn Gln Leu Lys Gly Ile Lys Ile Ile Ile Gln Asp Met Asp  
 50 55 60

Run	Time	Temp	Pressure	Flow	Conc	Yield	Product
1	10 min	100°C	1 atm	10 ml/min	0.1 M	0.5 g	Acetone
2	20 min	100°C	1 atm	10 ml/min	0.1 M	1.0 g	Acetone
3	30 min	100°C	1 atm	10 ml/min	0.1 M	1.5 g	Acetone
4	40 min	100°C	1 atm	10 ml/min	0.1 M	2.0 g	Acetone
5	50 min	100°C	1 atm	10 ml/min	0.1 M	2.5 g	Acetone
6	60 min	100°C	1 atm	10 ml/min	0.1 M	3.0 g	Acetone
7	70 min	100°C	1 atm	10 ml/min	0.1 M	3.5 g	Acetone
8	80 min	100°C	1 atm	10 ml/min	0.1 M	4.0 g	Acetone
9	90 min	100°C	1 atm	10 ml/min	0.1 M	4.5 g	Acetone
10	100 min	100°C	1 atm	10 ml/min	0.1 M	5.0 g	Acetone

Thr Val Thr Pro Phe Val Val Gln Ile Cys Lys Asn Leu Asp Asp Leu

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Val Lys Gln Tyr Glu Ser Glu Ser Val Lys Leu Ser Val Ser Thr Thr  
 115 120 125

Ser Lys Arg Glu Asn Ile Ser Pro Asp Tyr Pro Leu Thr Leu Leu Glu  
 130 135 140

Gly Leu Thr Thr Ile Ser His Phe Cys Leu Leu Glu Gln Ala Asn Gln  
 145 150 155 160

Asn Lys Lys Thr Met Ala Ala Gly Asp Pro Ala Asn Leu Arg Asn Ala  
 165 170 175

Arg Asn Ala Ile Leu Glu Glu Leu Pro Arg Thr Val Asn Thr Met Ala  
 180 185 190

Leu Leu Trp Asn Val Leu Arg Lys Glu Glu Thr Gln Lys Arg Pro Val  
 195 200 205

Asp Leu Leu Gly Ala Thr Lys Gly Ser Ser Ser Val Tyr Phe Lys Thr  
 210 215 220

Thr Lys Thr Ile Arg Gln Lys Ile Leu Asp Phe Leu Asn Pro Leu Thr  
 225 230 235 240

Ala His Leu Gly Val Gln Leu Thr Ala Ala Val Ala Ala Val Trp Ser  
 245 250 255

Arg Lys Lys Ala Gln Arg His Ser Lys Met Lys Ile Ile Pro Thr Ala  
 260 265 270

Ser Ala Ser Gln Leu Thr Leu Val Asp Leu Val Cys Ala Leu Ser Thr  
 275 280 285

Leu Gln Thr Asp Thr Leu Leu His Leu Val Lys Glu Val Val Lys Arg  
 290 295 300

Pro Pro Gln Val Lys Gly Gly Asp Glu Lys Ser Pro Leu Val Asp Ile  
 305 310 315 320

Pro Val Leu Gln Phe Cys Tyr Ala Phe Leu Gln Arg Ala Tyr Ser Pro  
 325 330 335

Pro Ser Ser Lys Asn Phe  
340

<210> 202  
<211> 221  
<212> PRT  
<213> Homo sapien

<400> 202

Gly Ser Trp Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly  
1 5 10 15

Ala Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn  
20 25 30

Ile Gly Ala Gly Tyr Asp Tyr Val His Trp Tyr Gln Gln Leu Pro Gly  
35 40 45

Thr Ala Pro Lys Leu Met Ile Tyr Glu Val Ala Lys Arg Pro Ser Gly  
50 55 60

Val Ser Asp Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu  
65 70 75 80

Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Cys  
85 90 95

Ser Tyr Ala Gly Ser Tyr Thr Trp Val Phe Gly Gly Gly Thr Lys Leu  
100 105 110

Thr Val Leu Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro  
115 120 125

Pro Ser Ser Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu  
130 135 140

Ile Ser Asp Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp  
145 150 155 160

Ser Ser Pro Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln  
165 170 175

Ser Asn Asn Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu  
180 185 190

Gln Trp Lys Ser His Lys Ser Tyr Ser Cys Gln Val Thr His Glu Gly  
 195 200 205

Ser Thr Val Glu Lys Thr Val Ala Pro Thr Glu Cys Ser  
 210 215 220

<210> 203  
 <211> 150  
 <212> PRT  
 <213> Homo sapien

<400> 203

Met Thr Val Arg Val Thr Tyr Thr Asn Val Leu Ser Glu Val Arg Arg  
 1 5 10 15

Pro Ile Pro Lys Tyr Ala Pro Met Cys Leu Val Leu His Ser Ile Leu  
 20 25 30

Pro Tyr Pro Met His Ala Lys Cys Met Val Ser Thr Trp Cys Pro Asn  
 35 40 45

Val Ser Ala Tyr Tyr Thr Lys Thr Thr Thr Cys Ser Thr His Asn Arg  
 50 55 60

Cys Asn Met Gln Ser Thr Lys Gln Gly His Thr Ala Gln Leu Ala Ile  
 65 70 75 80

Leu Thr Ile Glu Gln Ile Gln Ser Pro Asp Tyr Asn Met Leu Leu Thr  
 85 90 95

His Gly Leu Leu Gln Ala Ala Gln Trp Asn Leu Gly Leu Ser Leu Lys  
 100 105 110

Gln Gln Arg Tyr Ala Gln Leu Ala Ser Arg Thr Arg His Ala Asn Gly  
 115 120 125

Ile Pro Ala Thr Gly Ala Arg Ser Ser Asn Asn His Glu His Arg Pro  
 130 135 140

Glu Arg Arg Ala Leu Arg  
 145 150

<210> 204  
 <211> 47  
 <212> PRT  
 <213> Homo sapien

&lt;400&gt; 204

Met Ser Val Ser Ile Ser Leu Val Ser Ser Pro Arg Gly Ser Thr Ala  
 1 5 10 15

Tyr His Pro Arg Ser Val Glu Ala Pro Lys Gly Leu Pro Phe Leu Ala  
 20 25 30

Val Arg Pro Cys Ala Asn Pro Cys Gln Asp Thr Pro Arg Gly Leu  
 35 40 45

&lt;210&gt; 205

&lt;211&gt; 130

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 205

Met Arg His Arg Lys Arg Lys Ser Thr Arg Arg Lys Lys Arg Arg Arg  
 1 5 10 15

Ile Glu Glu Arg His Val Thr Glu Asn Arg Asp Gln Glu Arg Ser Lys  
 20 25 30

Asp Arg Pro Gln Arg Gln Asp Gly Gly Gly Glu Arg Lys Arg Ser Gln  
 35 40 45

Lys Lys Thr Lys Asn Glu Arg Ile Thr Glu Ile Asn Thr Ala Thr Arg  
 50 55 60

Glu Gln Thr Arg Gln Glu Gln Lys Lys His Lys Gln Gln Arg Glu Ala  
 65 70 75 80

Lys Arg Lys Lys Arg Lys Gly Arg Gln Gln Thr Lys Glu Thr Lys Arg  
 85 90 95

His Arg Gln Met Glu Arg Lys Arg Glu Gln His Arg Glu Glu Gly Arg  
 100 105 110

Lys Glu Ile Glu Thr Arg Ala Lys Arg Ala Arg Asn Lys Lys Arg Glu  
 115 120 125

Ala Arg  
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Asn Tyr Pro Arg Thr Asn Lys Glu Leu Lys  
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Phe Phe Phe Leu Ser Ser Arg Phe Val Ser Gly Met Cys Cys Trp Gly  
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Glu Leu Val Gly Ala Glu Ile Ser Thr Leu Val Thr His Arg Gly Asn  
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Thr Arg Leu Met Gly Pro Trp Leu Ser Pro Thr Arg  
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Ala Leu Tyr Thr Asn Cys Asp Gln Glu His Leu Leu Leu Thr Thr Ile  
 20 25 30

Ser Ser Ala Arg Arg His Lys Asn Met Val Cys Thr Arg Gly Val Asp  
 35 40 45

Asn His His Leu Cys Ala Gly Leu Arg Gly Arg Arg Ala Thr His Ser  
 50 55 60

Leu Ala Tyr Asn Ser Arg Cys Arg Thr Trp Arg Val Gly Leu Glu Thr  
 65 70 75 80

Leu Arg Gly Cys Asn Thr Asp Val His Gly Ala Ser Gly Lys Gln Thr  
 85 90 95

Arg Thr Gln Gln Arg Gly Glu Lys His Cys Phe Val Asn Arg Glu Asn  
 100 105 110

Thr Arg Met Ile Lys Asn Arg Pro Thr Gly Ala Gly Gly Thr Ile Thr  
 115 120 125

Thr Thr Glu Thr Leu Thr His Leu Gln Gly Gly Val Glu Gly Pro Leu  
 130 135 140

Asp Thr Pro Leu Lys Pro Arg Lys Ser Asn Asn Asp Ala Thr Lys Pro  
 145 150 155 160

Lys Ile Ala Thr His Ala Val Gln Ala Trp Ala Asp Thr Ala Arg Ser  
 165 170 175

Gly Ser Pro Lys Lys Glu Lys His Pro Lys Lys Gln  
 180 185

100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185

100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185